## TECHNICAL MANUAL

INSTALLATION MANUAL FOR EXPORT UNITS SERVICE MANUAL FOR DOMESTIC UNITS

**ELECTRICALLY HEATED MODELS:** 

**CREW 44** 

**CREW 66** 

STEAM HEATED MODELS

**CREW 44S** 

**CREW 66S** 



Jackson WWS, Inc. P.O. Box 1060, Hwy 25E Barbourville, KY USA 1.606.523.9795 www.jacksonwws.com

Revision Letter	Revision Date	Made By	Applicable ECNs	Details
Α	07-27-10	CM/JC	N/A	Initial release of manual
В	02-25-11	S	8183 8186 8187 8177	Transformer change for 208 Volt units. Drain handle operation & alignment change. Door splash shield addition. Rinse paddle switch operation. Initial release of 66" units, 44" Steam units & 66" Steam units
С	06-30-11	JC	N/A	Initial release of 23" & 30" unhooded side-loaders
D	03-28-13	JC		Changed Jackson Logo

### **TABLE OF CONTENTS**

Charifications	
Specifications  Machine Dimensions	Page 6
Side Loader Dimensions	Page 10
Steam Booster Heater Dimensions	Page 11
Operating Parameters	Page 12
Notes Regarding Electrical Requirements	Page 13
Electrical Requirements	Page 14
	1 450 11
Instructions	
Installation Instructions	Page 17
Curtain Installation Instructions	Page 22
Operating Instructions	Page 23
Delime Instructions	Page 25
Maintenance	
Troubleshooting	Page 26
Parts Section	
Control Box Components	Page 27
Overloads	Page 29
Miscellaneous Electrical Components	Page 30
Wash Heater and Heater Shroud Assemblies	Page 31
Pump Suction Assembly	Page 32
Wash Heaters	Page 33
Door Assembly	Page 34
Pre-Wash Door Assembly	Page 35
Wash Door Spring Assembly	Page 36
Plumbing Assembly, Main Water Inlet	Page 37
Wash Tank Fill Assembly	Page 38
Pre-Wash Tank Fill Assemblies	Page 39
Wash Manifold and Arm Assembly	Page 40
Pre-Wash Manifold and Arm Assemblies	Page 42
Rinse Assembly	Page 44
Pawl Bar Assembly	Page 46

Page 47

Page 48

Pawl Bar Bracket Assembly

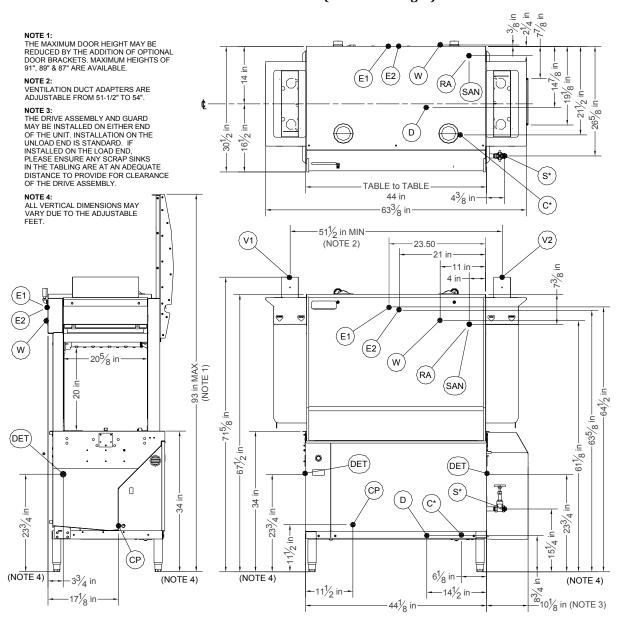
Pawl Bar Gutter Assembly

## TABLE OF CONTENTS (CONTINUED)

Parts Section (Continued)

Rack Paddle Assembly	Page 49
Rinse Paddle Assemblies	Page 50
Drain Assembly Parts	Page 51
Covers, Guards and Panels	Page 52
Brackets	Page 53
Miscellaneous Parts	Page 54
Ventilation Cowl Parts	Page 55
Ventilation Cowl for Unhooded Side-Loader	Page 56
Drive Assembly	Page 57
Side-Loaders	Page 59
Side-Loader Drive Linkage	Page 62
Steam Heating Coil Assembly	Page 63
Booster Heater Option (Electric)	Page 64
Booster Heater Option (Steam)	Page 65
Electrical Diagrams and Schematics	
Booster Heater Schematic (3 Phase)	Page 67
Booster Heater Schematic (1 Phase, 12 KW)	Page 68
Booster Heater Schematic (1 Phase, 18 KW)	Page 69
Steam Booster Heater Schematic	Page 70
Temperature Board	Page 71
Schematic, Photo-Cell Table Limit Switch	Page 72
Schematic, 44" (208-230-460/60/3 Phase)	Page 73
Schematic, 44" (208-230/60/1 Phase)	Page 74
Schematic, 44" Steam (208-230-460/60/3 Phase)	Page 75
Schematic, 44" Steam (208-230/60/1 Phase)	Page 76
Schematic, 66" (208-230-460/60/3 Phase)	Page 77
Schematic, 66" (208-230/60/1 Phase)	Page 78
Schematic, 66" Steam (208-230-460/60/3 Phase)	Page 79
Schematic, 66" Steam (208-230/60/1 Phase)	Page 80

### **MACHINE DIMENSIONS (44" Left to Right)**

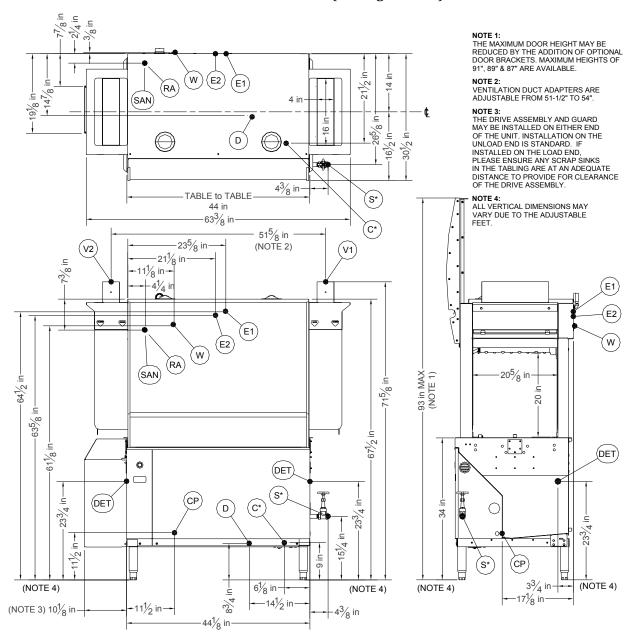


- \* APPLIES TO STEAM HEATED UNITS
- \*\* CHEMICAL SANITIZING UNITS ONLY

E1	MAIN ELECTRICAL CONNECTION (1.375" DIA HOLE)
E2	BOOSTER HEATER ELECT. CONNECTION (1.375" DIA)
W	MAIN INLET WATER CONNECTION (1/2 NPT-F)
D	DRAIN CONNECTION (1-1/2" NPT-F)
DET	DETERGENT BULKHEAD ACCESS (.875" DIA HOLE)
SAN**	SANITIZER INLET TO RINSE (1/8" NPT-F)

RA	RINSE AID CONNECTION TO RINSE (1/8" NPT-F)
CP	CONDUCTIVITY PROBE ACCESS (.875" DIA HOLE)
S*	STEAM TO WASH TUB HEATING COIL (3/4" NPT-F)
C*	CONDENSATE RETURN (3/4" NPT-F)
V1	VENTILATION DUCT CONN. (LOAD END) 4" x 16" ID
V2	VENTILATION DUCT CONN. (UNLOAD END) 4" x 16" ID

### **MACHINE DIMENSIONS (44" Right to Left)**



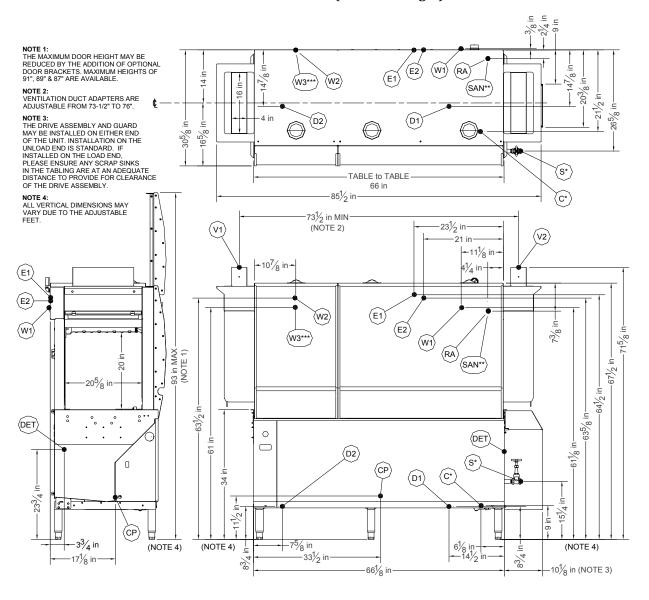
### \* APPLIES TO STEAM HEATED UNITS

### \*\* CHEMICAL SANITIZING UNITS ONLY

E1	MAIN ELECTRICAL CONNECTION (1.375" DIA HOLE)
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C*	CONDENSATE RETURN (3/4" NPT-F)
V1	VENTILATION DUCT CONN. (LOAD END) 4" x 16" ID
V2	VENTILATION DUCT CONN. (UNLOAD END) 4"x 16"ID

### **MACHINE DIMENSION (66" Left to Right)**

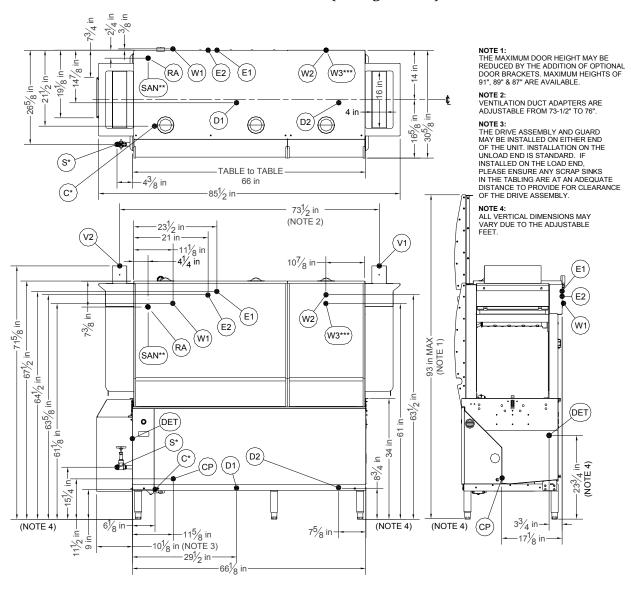


- \* APPLIES TO STEAM HEATED UNITS
- \*\* CHEMICAL SANITIZING UNITS ONLY
- \*\*\* PRE-WASH COLD WATER THERMOSTAT OPTION ONLY

E1	MAIN ELECTRICAL CONNECTION (1.375" DIA HOLE)
E2	BOOSTER HEATER ELECT. CONNECTION (1.375" DIA)
W1	MAIN INLET WATER CONNECTION (1/2 NPT-F)
W2	PRE-WASH INLET WATER CONN. (1/2 NPT-F)
W3***	PRE-WASH COLD WATER CONN. (1/2 NPT-F)
D1	DRAIN CONNECTION, WASH (1-1/2" NPT-F)
D2	DRAIN CONNECTION, PRE-WASH (1-1/2" NPT-F)
DET	DETERGENT BULKHEAD ACCESS (.875" DIA HOLE)

Ī	SAN**	SANITIZER INLET TO RINSE (1/8" NPT-F)
Ī	RA	RINSE AID CONNECTION TO RINSE (1/8" NPT-F)
Ī	CP	CONDUCTIVITY PROBE ACCESS (.875" DIA HOLE)
Ī	S*	STEAM TO WASH TUB HEATING COIL (3/4" NPT-F)
	C*	CONDENSATE RETURN (3/4" NPT-F)
1	V1	VENTILATION DUCT CONN. (LOAD END) 4" x 16" ID
	V2	VENTILATION DUCT CONN. (UNLOAD END) 4"x 16"ID

### **MACHINE DIMENSION (66" Right to Left)**

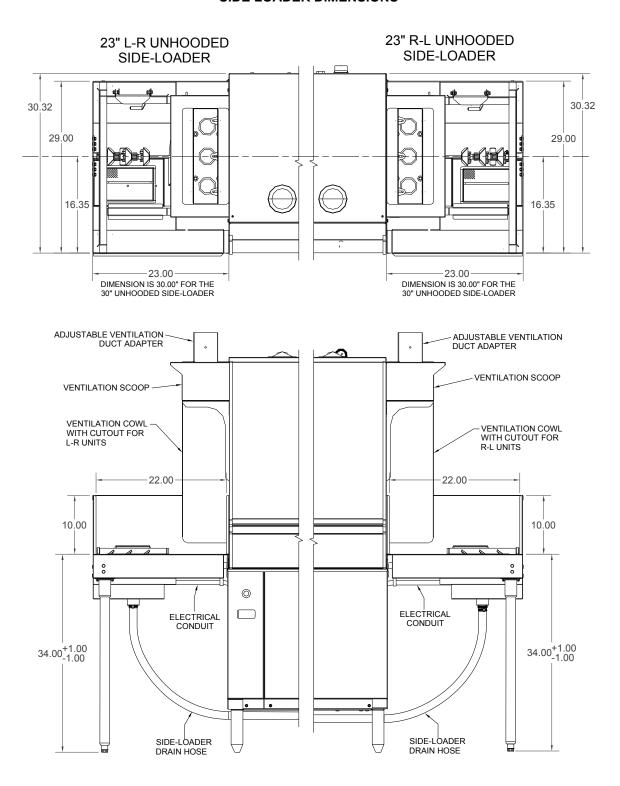


- \* APPLIES TO STEAM HEATED UNITS
- \*\* CHEMICAL SANITIZING UNITS ONLY
- \*\*\* PRE-WASH COLD WATER THERMOSTAT OPTION ONLY

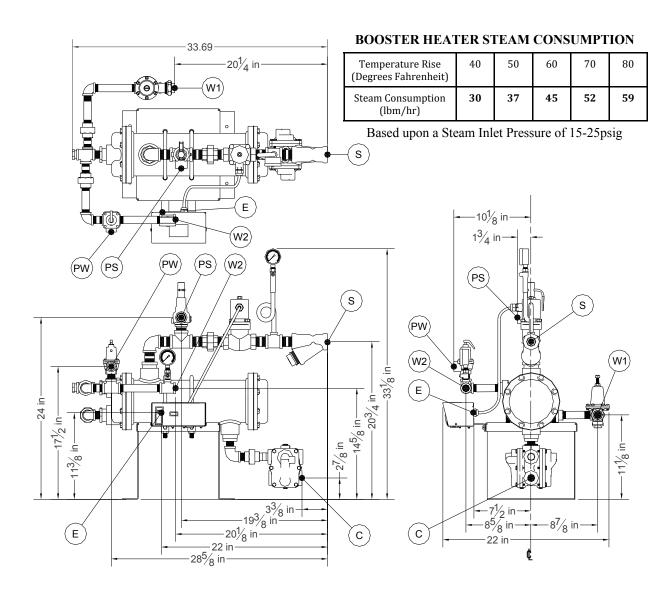
E1	MAIN ELECTRICAL CONNECTION (1.375" DIA HOLE)
E2	BOOSTER HEATER ELECT. CONNECTION (1.375" DIA)
W1	MAIN INLET WATER CONNECTION (1/2 NPT-F)
W2	PRE-WASH INLET WATER CONN. (1/2 NPT-F)
W3***	PRE-WASH COLD WATER CONN. (1/2 NPT-F)
D1	DRAIN CONNECTION, WASH (1-1/2" NPT-F)
D2	DRAIN CONNECTION, PRE-WASH (1-1/2" NPT-F)
DET	DETERGENT BULKHEAD ACCESS (.875" DIA HOLE)

SAN**	SANITIZER INLET TO RINSE (1/8" NPT-F)
RA	RINSE AID CONNECTION TO RINSE (1/8" NPT-F)
СР	CONDUCTIVITY PROBE ACCESS (.875" DIA HOLE)
S*	STEAM TO WASH TUB HEATING COIL (3/4" NPT-F)
C*	CONDENSATE RETURN (3/4" NPT-F)
V1	VENTILATION DUCT CONN. (LOAD END) 4" x 16" ID
V2	VENTILATION DUCT CONN. (UNLOAD END) 4"x 16"ID

### SIDE LOADER DIMENSIONS



### STEAM BOOSTER HEATER DIMENSIONS



Е	MAIN ELECTRICAL CONNECTION (7/8" DIA HOLE)
W1	MAIN INLET WATER CONNECTION (3/4 NPT-F)
W2	WATER OUTLET CONNECTION (3/4 NPT-F)
PW	WATER PRESSURE RELIEF OUTLET (3/4 NPT-F)
PS	STEAM PRESSURE RELIEF OUTLET (1" NPT-F)
S	STEAM SUPPLY TO BOOSTER (1" NPT-F)
С	STEAM CONDENSATE CONNECTION (3/4 NPT-F)

	Operating			
Model Designation:	44"	66"	44"Steam	66"Steam
Operating Capacity:				
Racks per Hour	218	218	218	218
Dishes per Hour	3488	3488	3488	3488
Glasses per Hour	7848	7848	7848	7848
Tank Capacity (gallons):				
Wash Tank	35.6	35.6	35.6	35.6
Pre-Wash Tank	N/A	15.8	N/A	15.8
Electrical Loads (as applicable):				
Wash Motor HP	3.0	3.0	3.0	3.0
Drive Motor HP	0.25	0.25	0.25	0.25
Pre-Wash Motor HP	N/A	2.0	N/A	2.0

NOTE: Always refer to the machine data plate for specific electrical and water requirements. The material provided on this page is for reference only and is subject to change without notice.

18

N/A

N/A

15 or 18

Wash Heater KW

HOT WATER SANITIZING				
Water Temperatures (Fahrenheit):		440.440		440.440
Pre-Wash Temperature (Recommended)	N/A	110-140	N/A	110-140
Minimum Wash Temperature	160	160	160	160
Minimum Rinse Temperature	180	180	180	180
Incoming Water Temperature				
12 KW Booster	140	140	N/A	N/A
18 KW Booster	110	110	N/A	N/A
No Booster	180	180	180	180
CHEMICAL SANITIZING				
Water Temperatures (Fahrenheit):				
Pre-Wash Temperature (Recommended)	N/A	110-120	N/A	110-120
Minimum Wash Temperature	120	120	120	120
Minimum Rinse Temperature	120	120	120	120
Incoming Water Temperature				
12 KW Booster	80	80	N/A	N/A
18 KW Booster	50	50	N/A	N/A
No Booster	120	120	120	120
Other Water Requirements:				
Water Flow Pressure (PSIG)	15	15	15	15
Flow Rate Minimum (GPM)	1.18	1.18	1.18	1.18
Water Line Size (NPT)	1/2"	1/2"	1/2"	1/2"
Drain Line Size (NPT)	1-1/2"	1-1/2"	1-1/2"	1-1/2"
Steam Requirements				
Steam Line for Wash Tank (NPT)	N/A	N/A	3/4"	3/4"
Steam Flow Pressure (PSIG)	N/A	N/A	10-20	10-20
Consumption @ 15 PSIG (lbm/hr)	N/A	N/A	60	60

### **Notes Regarding Electrical Requirements**

All electrical ratings provided in this manual are for reference only. Always refer to the machine data plate to get the exact electrical information for your machine. <u>All electrical work performed on machines should be done in accordance with applicable local, state, territorial and national codes.</u> Work should only be performed by qualified electricians and authorized service agents. A list of authorized Service Agencies is located in the back of this manual.

Note that all electrical wiring used in the dish-machine must be rated, at a minimum, for 100C (212F). Furthermore, use copper conductors only.

Where applicable, heating element amperage draws have been adjusted for the assumed input voltage. Jackson assumes incoming voltages will be either 208, 230 or 460 volts. Some of the heating elements used in our machines are actually rated for other voltages, such as 240 or 480 volts. Always verify the amperage draw of the machine in operation when sizing circuit protection.

If your machine is equipped with the optional rinse heater, note the rinse heater has its own electrical connection and therefore requires a separate service. Amperage loads for motors and heaters are called out on the machine data plate for the installation/service technician.

The electrical configurations of the machines are as follows:

### **Available Electrical Characteristics:**

- 208 volt, 60 Hz, single phase
- 230 volt, 60 Hz, single phase
- 208 volt, 60 Hz, three phase
- 230 volt, 60 Hz, three phase
- 460 volt, 60 Hz, three phase

### **Available Wash Tank Heaters:**

- 15KW (standard for CREW 44)
- 18KW (optional for CREW 44, standard for CREW 66)

### **Available Rinse Heaters ("Booster Heaters"):**

- None (standard)
- 12KW (40F rise in temperature)
- 18KW (70F rise in temperature)

### **Electrical Requirements for 44" Units**

### 44" with 15 kW Wash Heater

Volts	Phase	Freq	Wash Motor Amps	Drive Motor Amps	Wash Heater Amps	FLA	MCA	МОР
208	1	60	10.0 A	1.8 A	72.1 A	83.9 A	86.4 A	96.4 A
230	1	60	10.0 A	1.8 A	*59.9 A	71.7 A	74.2 A	84.2 A
240	1	60	10.0 A	1.8 A	62.5 A	74.3 A	76.8 A	86.8 A
208	3	60	8.6 A	1.1 A	41.6 A	51.3 A	53.5 A	62.1 A
230	3	60	8.4 A	1.1 A	*34.6 A	44.1 A	46.2 A	54.6 A
240	3	60	8.4 A	1.1 A	36.1 A	45.6 A	47.7 A	56.1 A
460	3	60	4.2 A	0.6 A	**17.3 A	22.1 A	23.2 A	27.4 A
480	3	60	4.2 A	0.6 A	18.1 A	22.9 A	24.0 A	28.2 A

### 44" with 18 kW Wash Heater

Volts	Phase	Freq	Wash Motor Amps	Drive Motor Amps	Wash Heater Amps	FLA	MCA	МОР
208	1	60	10.0 A	1.8 A	86.5 A	98.3 A	100.8 A	110.8 A
230	1	60	10.0 A	1.8 A	*71.9 A	83.7 A	86.2 A	96.2 A
240	1	60	10.0 A	1.8 A	75.0 A	86.8 A	89.3 A	99.3 A
208	3	60	8.6 A	1.1 A	50.0 A	59.7 A	61.9 A	70.5 A
230	3	60	8.4 A	1.1 A	*41.5 A	51.0 A	53.1 A	61.5 A
240	3	60	8.4 A	1.1 A	43.4 A	52.9 A	55.0 A	63.4 A
460	3	60	4.2 A	0.6 A	**20.8 A	25.6 A	26.7 A	30.9 A
480	3	60	4.2 A	0.6 A	21.7 A	26.5 A	27.6 A	31.8 A

### 44" Steam

Volts	Phase	Freq	Wash Motor Amps	Drive Motor Amps	FLA	MCA	МОР
208	1	60	10.0 A	1.8 A	11.8 A	14.3 A	24.3 A
230	1	60	10.0 A	1.8 A	11.8 A	14.3 A	24.3 A
208	3	60	8.6 A	1.1 A	9.7 A	11.9 A	20.5 A
230	3	60	8.4 A	1.1 A	9.5 A	11.6 A	20.0 A
460	3	60	4.2 A	0.6 A	4.8 A	5.9 A	10.1 A

<sup>\*</sup> Denotes 240 Volt heating elements that have been down-rated when 230 Volts is applied.

<sup>\*\*</sup> Denotes 480 Volt heating elements that have been down-rated when 460 Volts is applied.

### **Electrical Requirements for 66" Units**

### 66" with 18 kW Wash Heater

Volts	Phase	Freq	Pre-Wash Motor Amps	Wash Motor Amps	Drive Motor Amps	Wash Heater Amps	FLA	MCA	МОР
208	1	60	10.2 A	10.0 A	1.8 A	86.5 A	108.5 A	111.1 A	121.3 A
230	1	60	9.4 A	10.0 A	1.8 A	*71.9 A	93.1 A	95.6 A	105.6 A
240	1	60	9.4 A	10.0 A	1.8 A	75.0 A	96.2 A	98.7 A	108.7 A
208	3	60	6.8 A	8.6 A	1.1 A	50.0 A	66.5 A	68.7 A	77.3 A
230	3	60	6.4 A	8.4 A	1.1 A	*41.5 A	57.4 A	59.5 A	67.9 A
240	3	60	6.4 A	8.4 A	1.1 A	43.4 A	59.3 A	61.4 A	69.8 A
460	3	60	3.2 A	4.2 A	0.6 A	**20.8 A	28.8 A	29.9 A	34.1 A
480	3	60	3.2 A	4.2 A	0.6 A	21.7 A	29.7 A	30.8 A	35.0 A

### 66" Steam

Volts	Phase	Freq	Pre-Wash Motor Amps	Wash Motor Amps	Drive Motor Amps	FLA	MCA	МОР
208	1	60	10.2 A	10.0 A	1.8 A	22.0 A	24.6 A	34.8 A
230	1	60	9.4 A	10.0 A	1.8 A	21.2 A	23.7 A	33.7 A
208	3	60	6.8 A	8.6 A	1.1 A	16.5 A	18.7 A	27.3 A
230	3	60	6.4 A	8.4 A	1.1 A	15.9 A	18.0 A	26.4 A
460	3	60	3.2 A	4.2 A	0.6 A	8.0 A	9.1 A	13.3 A

<sup>\*</sup> Denotes 240 Volt heating elements that have been down-rated when 230 Volts is applied.

<sup>\*\*</sup> Denotes 480 Volt heating elements that have been down-rated when 460 Volts is applied.

### **Electrical Requirements for Booster Tanks**

40° F Rise - 12 KW Booster

Volts	Phase	Freq	Rinse Heater Amps	FLA
208	1	60	57.7 A	57.7 A
230	1	60	47.9 A	47.9 A
208	3	60	33.3 A	33.3 A
230	3	60	27.7 A	27.7 A
460	3	60	13.8 A	13.8 A

70° F Rise - 18 KW Booster

Volts	Phase	Freq	Rinse Heater Amps	FLA
208	1	60	82.7 A	82.7 A
230	1	60	71.9 A	71.9 A
208	3	60	47.7 A	47.7 A
230	3	60	41.5 A	41.5 A
460	3	60	20.7 A	20.7 A

Note: 0n the 208 volt machines, the rinse heater is actually rated at 17.2 KW

### INSTALLATION INSTRUCTIONS

VISUAL INSPECTION: Before installing the unit, check the container and the machine for damage. A damaged container may be an indication there is possible damage to the product. If there is any type of damage to both the container and the unit, DO NOT THROW AWAY THE CONTAINER. The dish-machine has been previously inspected at the factory and is expected to arrive to you in new, undamaged condition. However, rough handling by carriers or others may result in damage to the unit while it is in transit. If such a situation occurs, DO NOT RETURN THE UNIT TO THE MANUFACTURER. Instead, contact the carrier and ask them to send a representative to the site to inspect the damage. You should request that an inspection report be completed. You must contact the carrier within 48 hours of receiving the machine in order to report possible freight damage. You are also encouraged to contact the dealer through which you purchased the unit.

**UNPACKING THE MACHINE:** The machine should be unboxed and removed from the pallet prior to installing. Also remove the wooden lift beams and their associated brackets after the unit has been positioned. Open the front door and remove all of the materials from the inside. Once unpacked, verify there are no missing parts to the best of your ability. If you discover a part is missing, contact the manufacturer immediately.

**LEVEL THE DISHMACHINE:** The dish-machine is designed to operate while level. This is important to prevent any damage to the machine during operation and to ensure the best results possible. The unit comes equipped with adjustable bullet feet, which can be turned using a pair of pliers. Verify the unit is level from front to back and side to side prior to making any electrical or plumbing connections.

**PLUMBING THE MACHINE:** All plumbing connections must be made to adhere to local, state, territorial and national codes. The installing plumber is responsible for ensuring the incoming water lines are flushed of debris prior to connecting to the machine. Note that chips and materials from cutting processes can become lodged in the solenoid valves and prevent them from opening or closing. Any valves that are found to be fouled or defective because of foreign matter left in the water line, and any subsequent water damage, are not the responsibility of the manufacturer.

Water hardness should be a maximum of 6 grains per gallon. Hard water should be treated prior to be used by the machine. Iron in the water line can cause staining. A filter designed to remove iron from the water supply is highly recommended for supplies in excess of  $0.1~\rm ppm$ .

Your dish-machine comes with a Water Pressure Regulating Valve. The unit utilizes a flow pressure of 15 PSI for the incoming water line. Do not confuse static pressure with flow pressure. Static pressure is the pressure when there is no flow and the valves are closed; flow pressure is when the water is running into the machine. The WPRV should be adjusted to the proper flow pressure at a minimum.

The water supply line shall be 1/2" NPT minimum and must be able to provide water at the minimum temperature indicated on the machine data plate.

It is recommended a shut-off valve be installed to allow isolating the dish-machine from the water system in the event maintenance or other activities require it. Also, it is suggested that a shock absorber be in-

### **INSTALLATION INSTRUCTIONS (CONTINUED)**

stalled on the incoming water line. This prevents water hammer (hydraulic shock), induced by the solenoid valve as it operates, from causing damage to the equipment.

**CONNECTING THE DRAIN LINE:** The drain for the unit is a gravity discharge drain. All piping to the machine drain must be a minimum 1-1/2" NPT AND SHALL NOT BE REDUCED. There must also be an air gap between the machine drain line and the floor sink or drain. If a grease trap is required by code, it should have a flow capacity of 30 gallons. 44" units have one drain connection point. 66" units have two points.

**STEAM LINE CONNECTIONS:** Some machines covered in this manual are designed to use low pressure steam as a source of heat for the wash tank. Those machines come with lines by which an outside source of steam (i.e. steam booster) is connected. Connect all steam lines from the booster to the machine in accordance with the booster manufacturer's instructions. Ensure that all applicable codes and regulations are adhered to. See the machine data plate for information related to steam flow requirements.

**ELECTRICAL POWER CONNECTIONS:** All electrical connections are to be made in accordance with applicable portions of local, state, territorial and national codes.

# <u>DISCONNECT ELECTRICAL POWER SUPPLIES AND TAG OUT IN ACCORDANCE WITH APPROPRIATE</u> <u>PROCEDURES AND CODES AT THE DISCONNECT SWITCH TO INDICATE YOU ARE WORKING ON THAT CIR-</u> <u>CUIT.</u>

This manual provides reference information regarding electrical requirements and loads, but that information may change without notice. Always refer to the machine data plate for voltage requirements, machine voltage, total amperage load and serial number. If you cannot read your data plate because it has been damaged, you should contact the manufacturer.

The main power terminal blocks (for the dish-machine and for the rinse booster heater, if applicable) are located at the top of the machine. You will have to remove the top cover to access these connections. Route incoming power lines within conduit that will connect via fittings to the pre-punched holes in the back of the unit. Install power and ground wires to lugs as indicated by the appropriate decals in the control box. Use copper conductors only. Use of a anti-oxidation agent is permissible on the power connections. Tighten all connections.

Verify the incoming voltage matches the voltage indicated on the decal next to the incoming power prepunched hole.

Please note the dish-machine has a separate power connection from the rinse booster heater and the circuit protection requirements are different for each. Refer to the machine data plate for information on minimum circuit protection.

**DISHMACHINE VENTILATION:** The dish-machine should be located with provisions for venting into an adequate exhaust hood or ventilation system. This is essential to permit efficient removal of the condensation exhaust. Ensure the exhaust system is acceptable in accordance with applicable codes and standards.

### INSTALLATION INSTRUCTIONS (CONTINUED)

Note: any damage that is caused by steam and/or moisture due to improper ventilation is NOT covered under the warranty.

The dish-machine has the following ventilation requirements:

Load End: 200 CFMUnload End: 200 CFM

The exhaust system must be sized to handle this volume for the dish-machine to operate in the manner it was designed to.

**THERMOSTATS:** The thermostats on your unit have been set at the factory for the wash tank. They should only be adjusted by an authorized service agent.

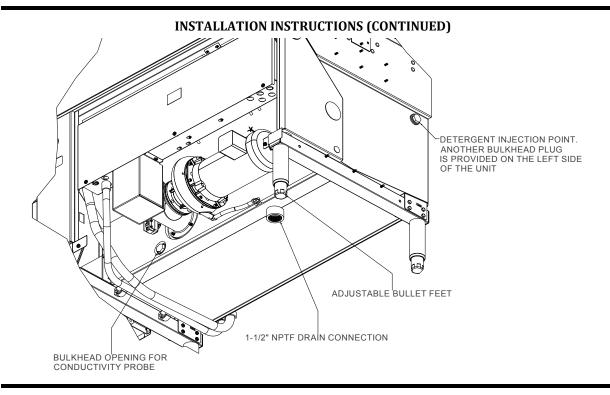
**CHEMICAL FEEDER EQUIPMENT:** Your dish-machine DOES NOT COME WITH AN INTEGRAL CHEMI-CAL SUPPLY/FEEDER SYSTEM. You must connect the unit to a third party chemical dispenser that meets the requirements of NSF Standard 29 for the machine to operate correctly.

You should contact your chemical supplier about connecting a dispenser to your dish-machine. Chemical dispensers must be set for the type and concentration of chemicals being used and there are several factors that have to be taken into account.

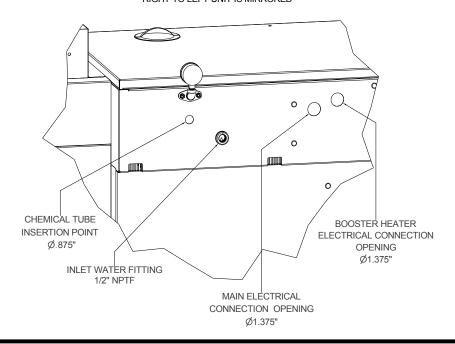
Detergent usage and water hardness are two factors that contribute greatly to how efficiently your dish machine will operate. Using the proper amount of detergent can become, in time, a source of substantial savings. A qualified water treatment specialist can explain in detail to you what is needed to gain the maximum efficiency from your detergent.

The dish-machine is able to operate in either hot water sanitizing mode or chemical sanitizing mode. Your unit should be clearly marked above the data plate as to the mode it is in. If you cannot determine this, contact the manufacturer immediately for assistance.

It is important to remember that if you decide to operate the unit in chemical sanitizing mode, you must ensure an appropriate chlorine-based sanitizer is used in the final rinse line.



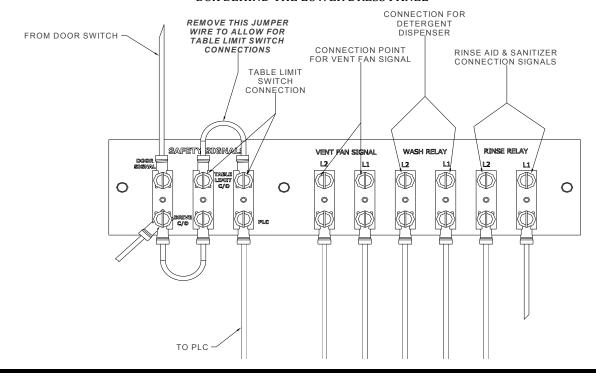
## SHOWN FROM REAR OF **LEFT TO RIGHT** UNIT. RIGHT TO LEFT UNIT IS MIRRORED

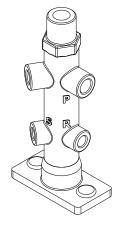


### **INSTALLATION INSTRUCTIONS (CONTINUED)**

## ELECTRICAL CONNECTION POINTS FOR TABLE LIMIT SWITCH, VENTILATION FAN SIGNAL & CHEMICAL DISPENSING SYSTEMS

## SIGNAL BOARD IS LOCATED IN THE MAIN CONTROL BOX BEHIND THE LOWER DRESS PANEL





### CHEMICAL DISSPENSER TUBE CONNECTION POINTS TO RINSE INJECTOR

P: PRESSURE SWITCH (1/4" NPT)

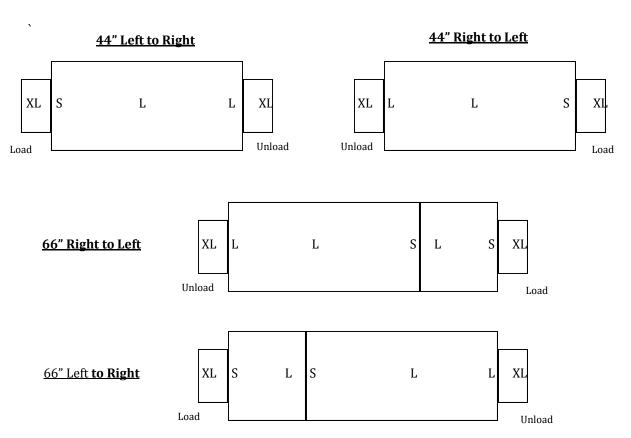
S: SANITIZER (1/8" NPT)

**R**: RINSE AID (1/8" NPT)

### **CURTAIN INSTALLATION INSTRUCTIONS**

You will find decals on the unit marking the locations for the placement of curtains inside the machine, starting from the load end and going all the way to the unload end. The illustrations below indicates the size of the curtain to be placed on the curtain hooks provided. If you are missing any of the curtain components, it is very important you obtain replacement parts in order to make sure your unit runs correctly. Curtains are used to control the air currents inside your unit and they greatly assist in maintaining the heat necessary to keep energy costs down.

**DETERMINING CONVEYOR DIRECTION:** Your dish-machine will be configured for either Left to Right or Right to Left operation. Direction is always from the Load End to the Unload End, as shown in the examples.



**IMPORTANCE OF PROPER CURTAIN PLACEMENT:** The curtains inside the dish-machine are required to be installed in a particular fashion. Note the approximate locations for each type of curtain in the above illustrations. **S=Short, L=Long** & **XL=Extra Long**. See the chart below for actual curtain lengths and part numbers. Note the XL Curtain and Curtain Rod difference for the Load End when a Side-Loader Option is present

Legend	Length	Part Number
S	12"	08415-131-73-44
L	19"	08415-002-14-41
XL	24.25"	08415-002-47-37
Curtain Rod	20.50"	05700-003-77-52

Side-Loader Option	Length	Part Number
XL (Load End Only)	24.25"	08415-003-84-88
Curtain Rod (Load End Only)		05700-003-84-57

### **OPERATION INSTRUCTIONS**

**PREPARATION:** Before proceeding with the start-up of the unit, verify the following:

- The drain stopper is installed;
- The strainers are installed:
- The pawl bar is installed and secure;
- The actuator switches move with relative freedom and do not bind;
- The curtains are installed correctly

**POWER UP:** To place the unit in standby, press the Start Button on the front of the machine.

- The unit will automatically determine if there is a proper water level in the wash tank. If not, the unit will begin to fill until the appropriate level is reached.
- If the wash tank temperature is not at the minimum level for the mode of operation, the wash heater will energize. Refer to the machine data plate for a better understanding of the minimum temperatures needed to operate the unit correctly. It may take several minutes for the wash tank to heat up, depending on the initial temperature of the water.
- If your machine is equipped with a rinse booster option, note the booster shall turn on when the unit turns on.
- If your machine is heated with a steam booster, then you will need to turn on the steam booster in accordance with the manufacturer's instructions.
- It is important that you do not attempt to start the unit until:
  - The unit stops filling;
  - The unit has reached the appropriate wash tank temperature.

**FIRST RACK:** The first rack of ware that you place into the unit usually has the effect of very quickly reducing the temperature of the wash tank. This is because you are introducing cold materials into the dishmachine environment and the unit has to circulate water to get the heating cycle going. You may have to run the first rack through the unit again. Any time the unit has not been operated for an extended period of time this is possible, but unlikely. This is usually dependent on the type of ware you are using, its temperature and the ambient temperature of the kitchen area. Always observe the temperatures of the wash and rinse when first starting the unit to ensure proper operation.

**WARE PREPARATION:** Proper preparation of ware is essential for the smooth, efficient operation of your dish-machine. If done properly, you can expect to have fewer re-washes and use substantially less detergent. Any ware placed inside the machine should have all solid food waste and scraps removed. It is recommended that ware also be sprayed down prior to entry into the dish-machine.

Place cups and glasses upside down in racks so they do not hold water during the cycle. Presoak flatware in warm water to assist in getting stuck-on material off. Load plates and saucers in the same direction (with the surface food is placed on facing towards the unload end of the machine).

**WASHING A RACK OF WARE:** The dish-machine is designed to wash ware placed in a rack. Under no circumstance should any materials be placed inside the unit that have not been properly secured into a dish rack.

To start the cycle, gently push the rack into the unit on the load end. Once the wash actuator has moved sufficiently, the unit will automatically begin to convey the dish rack through the unit. The entire cycle is automatic.

### **OPERATION INSTRUCTIONS (CONTINUED)**

**OPERATIONAL INSPECTIONS**: It is recommended that operators periodically review the following items while the machine is operating. All of these items are important to operating the machine in an efficient manner.

- Review wash and rinse temperatures and compare to the minimums required by the data plate. Low temperatures can be an indication of a faulty thermostat, a thermostat that needs adjustment or some other condition that needs to be addressed.
- Verify the pan strainers are not becoming clogged. Keeping these free of soil and debris allows for much better flow of water through the machine and prevents any sort of redeposit issues.
- Water pressure. The dish-machine is designed to run at a minimum of **15 PSIG**; any lower than that and you won't have enough rinse water to properly remove detergent from your ware.
- Wash and rinse arm nozzles should be free of debris. Open nozzles are essential to the operation of the dish-machine.

**SHUTDOWN:** To shut the unit down, press the Start Switch on the front of the machine. To drain the machine, open the front door and pull up on the drain release inside the unit. If you have a steam booster for heating the dish-machine, shut it down in accordance with its manufacturer's instructions.

**CLEANING:** It is recommended the unit be cleaned at least once every 24 hours or at the end of the day. Cleaning assists in maintained the efficient operation of the unit by removing soil and debris that might otherwise become trapped in nozzles or get deposited onto ware.

- Curtains: should be removed and scrubbed with mild detergent/soap and a brush and allowed to air drv.
- Strainers: should be removed and have debris scooped out. Never hit strainers to remove debris; this can cause them to warp and not seat correctly. Rinse under water should remove the rest of any debris trapped in the part.
- Wash Arms: the wash arms can be removed using a 7/16" driver; however, the dish-machine is designed so the wash arms are self-cleaning. Operators have the ability to flush the arms by removing the plastic end caps and running a rack through the unit. This should only be done as a cleaning function with an empty rack and a tub that is filled with water.
- Internal Chamber: Mild detergent/soap and a dishrag should be all that is needed to clean the inside of the machine. Strainers and the pawl bar should be removed to provide as much room as possible.
- External Areas: The outside of the unit should be cleaned with a standard countertop or general cleaner. Never attempt to clean inside any compartments, boxes or chambers that are secured with a cover. These normally contain live electrical components.
- DO NOT CLEAN THE UNIT WITH ANY TYPE OF METALLIC SCRUBBING SPONGE!

### **DELIME INSTRUCTIONS**

To proceed with the delime operation, fill the dish-machine and the correct amount of delime solution as recommended by the manufacturer of the chemicals. The tank capacities of the machine can be found on the specifications page of this manual.

After the chemicals are added, perform the following steps:

- 1. Flip the NORMAL/DELIME Switch to DELIME.
- 2. Disconnect or turn off chemical feeder pumps.
- 3. Close all doors.
- 4. Press the Start Switch and run the machine for the length of time required by the chemical solution manufacturer.
- 5. Press the Start Switch to shut the unit off.
- 6. Open the door and step away for 5 minutes.
- 7. Inspect the inside of the unit to determine if your expectations have been met. If not, you may need to run the delime solution through the unit for more time.
- 8. Once clean, drain the machine completely.
- 9. Close the door.
- 10. Refill the unit.
- 11. Press the Start Switch and run the unit in Manual for 10 minutes.
- 12. Press the Start Switch to turn off the unit.
- 13. Open the front door.
- 14. Drain the unit.
- 15. Flip the NORMAL/DELIME Switch to NORMAL.
- 16. Your machine is ready to use.

This equipment is not recommended for use with deionized water or other aggressive fluids. Use of deionized water or other aggressive fluids will result in corrosion and failure of materials and components. Use of deionized water or other aggressive fluids will void the manufacturer's warranty.

### UTILIZE THESE SCREWS FOR PLC REPLACEMENT **@** (4 | 4 | 4 | 4 | 4 | <del>5</del> **INPUTS** 00 STATUS **INDICATING** LIGHTS GE Famus **RUN TOGGLE SWITCH** 04 gr 03 12 2004 **OUTPUTS** UTILIZE THESE SCREWS FOR PLC REPLACEMENT

### **TROUBLESHOOTING**

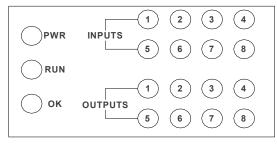
Green LED lights are illuminated on the PLC when in operation. The POWER, OK & RUN lights indicate that 24VDC power is available to the PLC and that is functioning properly. If the RUN light is out, first check that the RUN toggle switch located behind the snap cover panel of the PLC is in the RUN position. Less likely is that the operational program of the PLC may have been corrupted or lost. Temporary power surges may have occurred. Secure all power to the machine, wait for 30 seconds and restore power. Verify that the Green light is illuminated to the 24vdc power supply immediately to the left of the PLC. If the RUN light is still off, replace the PLC.

Refer to the illustration below for the designation of each LED. PLC1 is used for the 44" Electric & Steam units. An expansion PLC (PLC2) is used in conjunction with PLC1 for 66" Electric & Steam units.

Inputs correspond to the connections behind the top flip up panel of the PLC and are marked I1 thru I8. Outputs correspond to the connections behind the bottom flip up panel of the PLC and are marked Q1 thru Q8.

Note: All outputs are fused. Q1 & Q2 outputs for both PLC's utilize 1.0 Amp fuses and Q3-Q8 outputs utilize 0.75 Amp fuses. When illuminated, the LED lights on the front of each PLC will show the input from and the outputs to various components as illustrated below. LED's that may illuminate on PLC2 that are marked "NOT USED" have no bearing on the operation of the current ware-washers.

## PLC1 LIGHT CONFIGURATION



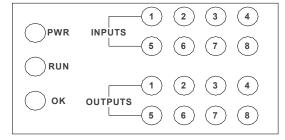
### INPUTS:

- 1. ON/OFF SWITCH
- 2. DOOR SWITCH SAFETY INTERLOCKS
- 3. RACK INLET SWITCH
- 4. FINAL RINSE SWITCH
- LOWER WASH FLOAT SWITCH
- 6. UPPER WASH FLOAT SWITCH
- 7. MANUAL / DELIME SWITCH
- 8. N/A

#### **OUTPUTS:**

- RINSE SOLENOID / RINSE SIGNAL RELAY
- 2. WASH TANK FILL SOLENOID
- 3. DRIVE MOTOR CONTACTOR
- 4. WASH MOTOR CONTACTOR
- 5. WASH HEATER CONTACTOR or STEAM HEAT RELAY6. VENTILATION FAN RELAY
- 7 N/A
- 8. SIDE-LOADER SWITCH (ON WITH NO RACK PRESENT)

## PLC2 LIGHT CONFIGURATION



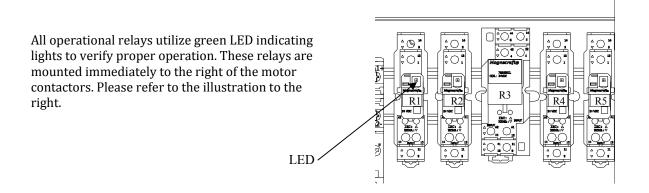
#### INPUTS:

- 1. LOWER PRE-WASH FLOAT SWITCH (66 UNITS ONLY)
- 2. UPPER PRE-WASH FLOAT SWITCH (66 UNITS ONLY)
- 3. N/A
- N/A
   N/A
- 6. N/A
- 7. N/A
- 8. N/A

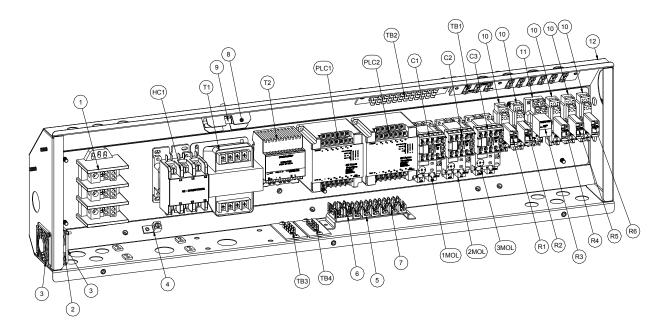
#### OUTPUTS:

- PRE-WASH TANK FILL SOLENOID (66 UNITS ONLY)
- 2. PRE-WASH MOTOR CONTACTOR (66 UNITS ONLY)
- 3. N/A
- 4. N/A
- 5. N/A
- 6. N/A
- 7. N/A
- 7. N/A 8. N/A

### PARTS SECTION: CONTROL BOX COMPONENTS



THE ILLUSTRATION BELOW DEPICTS THE COMPONENTS OF A 66" ELECTRICALLY HEATED UNIT WITH THE BOOSTER HEATER OPTION. COMPONENT QUANTITIES AND PART NUMBERS MAY VARY FOR DIFFERENT UNITS. PLEASE REFER TO THR NOTES WITHIN THE PARTS LIST ON THE NEXT PAGE TO VERIFY THAT THE REQUIRED PART NUMBER IS CORRECT.



### PARTS SECTION: CONTROL BOX COMPONENTS (CONTINUED)

Item	QTY	Description	Part Number
PLC1	1	PLC, 24VDC (IC200UDD104) (PROGRAMED FOR 44" UNITS) (PROGRAMED FOR 66" UNITS)	05945-003-92-50 05945-003-92-51
PLC2	1	PLC, 24VDC (IC200UEX014) (66" UNITS ONLY)	05945-003-82-47
T1	1	TRANSFORMER 208 TO 120VAC (208 VOLT UNITS) TRANSFORMER 230/460 TO 120VAC	05950-011-75-59 05950-011-68-35
T2	1	POWER SUPPLY 24VDC	05950-003-76-32
HC1	1	CONTACTOR, 24VDC 3 POLE (USED ON 3-PHASE UNITS) CONTACTOR, 24VDC 4 POLE (USED ON 1-PHASE UNITS)	05945-003-75-02 05945-003-73-22
C1	1	CONTACTOR, DRIVE MOTOR	05945-003-75-22
C2	1	CONTACTOR, WASH PUMP	05945-003-75-22
С3	1	CONTACTOR, PRE-WASH MOTOR (66" UNITS ONLY)	05945-003-75-22
R1	1	RELAY, VENT FAN	05945-003-76-34
R2	1	RELAY, RINSE SIGNAL	05945-003-76-34
R3	1	RELAY, TEMPERATURE BOARD	05945-003-79-57
R4	1	RELAY, BOOSTER HEATER (OPTIONAL)	05945-003-76-34
R5	1	RELAY, WASH TANK STEAM (STEAM UNITS ONLY)	05945-003-76-34
R6	1	RELAY, PHOTO CELL TABLE LIMIT (OPTIONAL)	05945-003-76-34
1MOL	1	OVERLOAD, DRIVE MOTOR (USED ON 3-PHASE UNITS)	SEE OVERLOAD PAGE
2MOL	1	OVERLOAD, WASH MOTOR (USED ON 3-PHASE UNITS)	SEE OVERLOAD PAGE
3MOL	1	OVERLOAD, PRE-WASH MOTOR (USED ON 3-PHASE 66" UNITS)	SEE OVERLOAD PAGE
TB1	1	TERMINAL BOARD, SIGNAL	05940-003-77-43
TB2	1	TERMINAL BOARD, DC	05940-003-77-65
TB3	1	TERMINAL BOARD, L1	05940-021-94-85
TB4	1	TERMINAL BOARD, L2	05940-021-94-85
1	1	TERMINAL BLOCK 3 POLE	05940-011-48-27
2	1	FAN, 24 VDC	05999-002-47-12
3	2	FAN FINGER GUARD	05999-003-12-92
4	1	GROUND LUG	05940-200-76-00
5	1	BRACKET, FUSE STRIP	05700-002-42-03
6	1	FUSE HOLDER	05920-401-03-14
7	1	FUSE HOLDER, 6 SLOT	05920-002-42-13
8	1	HOLDER, BUSSMAN FUSE	05920-011-72-89
9	1	FUSE, 1.0 AMP (208 & 230 VOLT UNITS) FUSE, 0.5 AMP (460 VOLT UNITS)	05920-002-67-23 05920-011-72-88
10	5	RELAY SOCKET, 20A 300V (USED FOR R1,R2, R4,R5 & R6)	05945-003-76-33
11	1	RELAY SOCKET, 16A 300V (USED FOR R3)	05945-003-79-58
12	1	CONTROL BOX WELDMENT (44" UNITS) CONTROL BOX WELDMENT (66" UNITS)	05700-003-82-04

### PARTS SECTION: OVERLOADS

### **WASH MOTORS:**

Overloads are specified for 3 phase units only.

For GE brand, MT03\* series overloads, the process for setting is as follows:

- Determine the Full Load Amps for the wash motor
- Set the overload at the closest setting without going over for the FLA of the motor.
- The overload already compensates for the FLA and will have a set point that is 125% of the FLA. Example: Wash Motor is rated at 10.0 FLA on the data plate. The replacement MT03\* overload would be set at 10.0. It would actually trip at 12.5 Amps.

Wash Motor Voltage	Part Number	GE Part Number
208	05945-003-76-29	MT03N
230	05945-003-76-29	MT03N
460	05945-003-76-27	MT03L

Blue Selector switch should be set to H for manual reset.

### **DRIVE MOTORS:**

Overloads are specified for 3 phase units only.

For GE brand, MT03\* series overloads, the process for setting is as follows:

- Determine the Full Load Amps for the drive motor.
- Set the overload at the closest setting without going over for the FLA of the motor.
- The overload already compensates for the FLA and will have a set point that is 125% of the FLA. Example: Drive Motor is rated at 1.0 FLA on the data plate. The replacement MT03\* overload would be set at 1.0. It would actually trip at 1.25 Amps.

Drive Motor Voltage	Part Number	GE Part Number
208	05945-003-76-23	MT03F
230	05945-003-76-23	MT03F
460	05945-003-76-21	MT03D

Blue Selector switch should be set to H for manual reset.

### **PRE-WASH MOTORS:**

Overloads are specified for 3 phase units only.

For GE brand, MT03\* series overloads, the process for setting is as follows:

- Determine the Full Load Amps for the drive motor.
- Set the overload at the closest setting without going over for the FLA of the motor.
- The overload already compensates for the FLA and will have a set point that is 125% of the FLA.

Example: Drive Motor is rated at 6.0 FLA on the data plate. The replacement MT03\* overload would be set at 6.0. It would actually trip at 7.5 Amps.

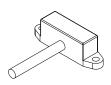
Pre-Wash Motor Voltage	Part Number	GE Part Number	
208	05945-003-76-28	MT03M	
230	05945-003-76-28	MT03M	
460	05945-003-76-26	MT03K	

Blue Selector switch should be set to H for manual reset.

NOTE: Connections should be tightened to 7 in-lbs.

### PARTS SECTION: MISCELLANEOUS ELECTRICAL COMPONENTS

Description	Part Number
FITTING, 1", 90 DEGREE HUB (2 per 44" units, 1 per 66" units)	05975-003-77-44
FITTING, 1" STRAIGHT HUB (1 per 66" units)	05975-003-88-01
FITTING, 3/4" STR QT 8495 SNAP	05975-003-77-46
FITTING, 3/4" 90 DEGREE QT 8510 SNAP	05975-003-77-45
FITTING, 1/2" NPT 90 DEGREE 8507	05975-003-35-32
FITTING, 1/2" NPT STR 8490	05975-003-33-27
FITTING, ,231 X .394, LIQUIDTITE	05975-011-49-03
CLAMP, 1" FLEX2 CONDUIT 1031	05975-003-77-88
CLAMP, 3/4" FLEX2 CONDUIT 1029	05975-003-77-89
PLUG, 2.5" HOLE, LOUVERED 2596	05975-003-77-39
PLUG, HEYCO 2700 G-875	05975-011-47-81
PLUG, HEYCO, 2723	05975-002-29-94
PLUG, HEYCO, 2683	05340-011-46-79
PLUG, HEYCO, 2790	05975-011-59-49
BUSHING, HEYCO, 2236	05975-003-10-46
GROMMET, 1.250 OD X 1.000 ID	05975-111-58-01
GROMMET, 7/8 SPLIT, HEYCO, 2119	05975-200-40-00



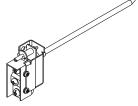
PROXIMITY SWITCH 24VDC P/N: 05930-003-76-51





**DELIME SWITCH** P/N: 05930-301-46-00







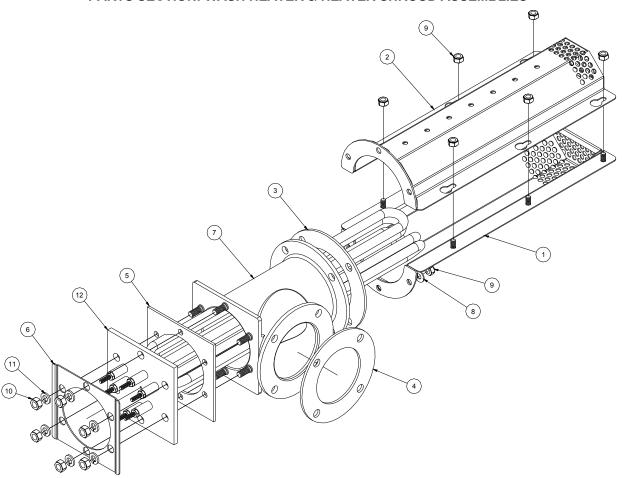
START SWITCH P/N: 05930-003-76-52



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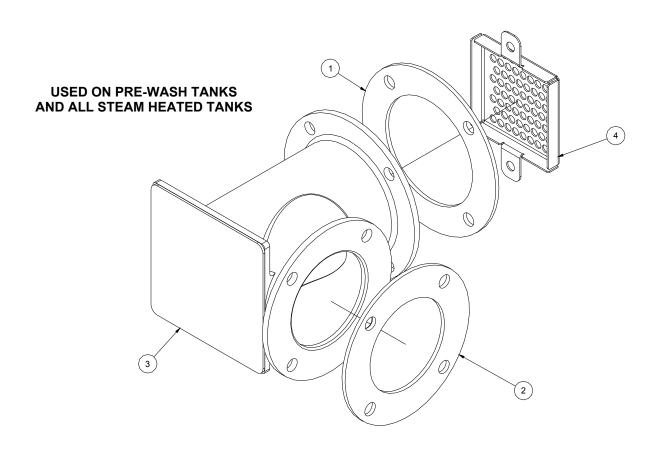
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### PARTS SECTION: WASH HEATER & HEATER SHROUD ASSEMBLIES



Item	QTY	Description	Part Number
1	1	HEATER SHROUD WELDMENT LOWER	05700-003-74-21
2	1	HEATER SHROUD WELDMENT UPPER	05700-003-74-24
3	1	GASKET, SUCTION CASTING	05330-003-75-89
4	1	GASKET, PUMP SUCTUON	05330-003-75-87
5	1	GASKET, HEATER	05330-200-02-70
6	1	HEATER BOX RAILS	05700-003-74-72
7	1	WASH PUMP SUCTION WELDMENT	05700-003-77-63
8	2	WASHER, S/S (NOT SHOWN)	05311-174-01-00
9	9	LOCKNUT, 1/4"-20 HEX W/NYLON INSERT	05310-374-01-00
10	6	NUT, HEX 5/16-18 S/S	05310-275-01-00
11	6	LOCKWASHER, 5/16" SPLIT S/S	05310-275-01-00
12	1	WASH HEATING ELEMENT (15kW / 18kW)	SEE HEATER CHART

### PARTS SECTION: PUMP SUCTION ASSEMBLY



Item	QTY	Description	Part Number
1	1	GASKET, SUCTION CASTING	05330-003-75-89
2	1	GASKET, PUMP SUCTUON	05330-003-75-87
3	1	PRE-WASH PUMP SUCTION WELDMENT	05700-003-82-27
4	1	STRAINER, PRE-WASH PUMP	05700-003-81-28

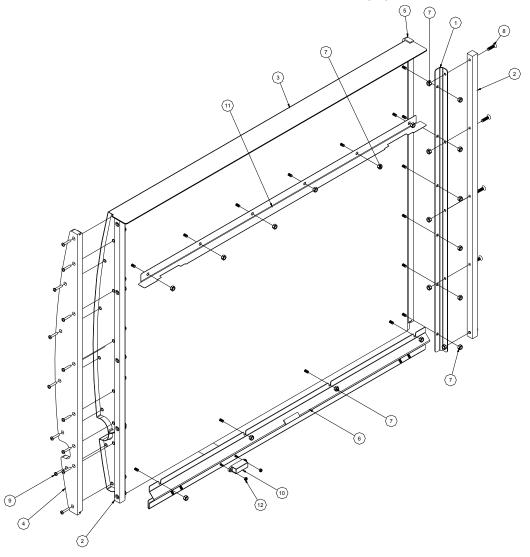
### **PARTS SECTION: WASH HEATERS**

VOLTAGE	PHASE	KW	PART NUMBER	CONTACTOR
208	1	15	04540-121-68-45	05945-003-73-22
230	1	15	04540-121-68-46	05945-003-73-22
208	3	15	04540-121-68-45	05945-003-75-02
230	3	15	04540-121-68-46	05945-003-75-02
460	3	15	04540-121-68-47	05945-003-75-02
208	1	18	04540-121-79-30	05945-003-73-22
230	1	18	04540-121-79-31	05945-003-73-22
208	3	18	04540-121-79-30	05945-003-75-02
230	3	18	04540-121-79-31	05945-003-75-02
460	3	18	04540-121-79-32	05945-003-75-02

SERVICE NOTES: when replacing wash heaters, it is highly recommended you also change out the gasket as well. Once installed, gaskets become compressed and are subject to extreme temperature changes. Replacing the gasket with a new one when replacing the heater may prevent future leaks.

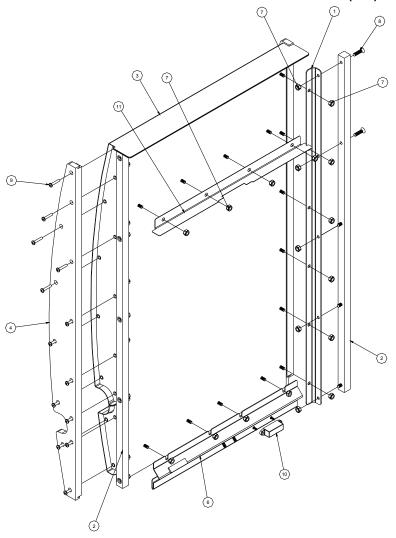
The nuts used to secure the heater to the casting should be torque to 16 in-lbs. After tightening, the unit should be allowed to heat up and operate normally for approximately 30 minutes. Secure power to the machine and check the nuts once more to verify they are torque to 16 in-lbs.

## PARTS SECTION: DOOR ASSEMBLY (44)



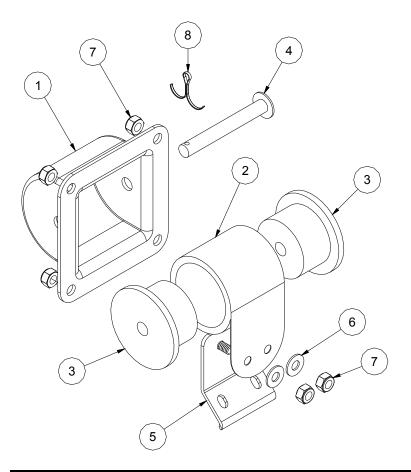
Item	QTY	Description	Part Number
1	2	DOOR GUIDE BRACKET	05700-003-72-32
2	2	DOOR GUIDE	09330-003-73-94
3	1	DOOR WELDMENT	05700-003-76-87
4	1	END PIECE, DOOR RIGHT SIDE	09330-003-73-83
5	1	END PIECE, DOOR LEFT SIDE	09330-003-73-84
6	1	DOOR STOP AND SUPPORT WELDMENT	05700-003-72-51
7	32	LOCKNUT, 1/4"-20 HEX W/NYLON INSERT	05310-374-01-00
8	10	SCREW, 1/4"-20 X 1", 82 COUNTERSINK, PHILLIPS	05305-011-81-58
9	26	SCREW, 10-32 X 1" PHILLIPS PAN HEAD	05305-002-19-42
10	1	MAGNET	05930-002-88-42
11	1	SPLASH SHIELD	05700-003-81-86
12	2	LOCKNUT, 6-31 HEX W/NYLON INSERT	05310-373-03-00

## PARTS SECTION: PRE-WASH DOOR ASSEMBLY (22")



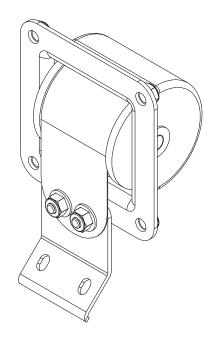
Item	QTY	Description	Part Number
1	2	DOOR GUIDE BRACKET	05700-003-72-32
2	2	DOOR GUIDE	09330-003-73-94
3	1	DOOR WELDMENT	05700-003-80-32
4	1	END PIECE, DOOR RIGHT SIDE	09330-003-73-83
5	1	END PIECE, DOOR LEFT SIDE	09330-003-73-84
6	1	DOOR STOP AND SUPPORT WELDMENT (L-R) DOOR STOP AND SUPPORT WELDMENT (R-L)	05700-003-80-27 05700-003-82-50
7	34	LOCKNUT, 1/4"-20 HEX W/NYLON INSERT	05310-374-01-00
8	10	SCREW, 1/4"-20 X 1", 82 COUNTERSINK, PHILLIPS	05305-011-81-58
9	26	SCREW, 10-32 X 1" PHILLIPS PAN HEAD	05305-002-19-42
10	1	MAGNET	05930-002-88-42
11	1	SPLASH SHIELD	05700-003-82-46
12	2	LOCKNUT, 6-32 HEX W/NYLON INSERT (NOT SHOWN)	05310-373-03-00

### PARTS SECTION: DOOR SPRING ASSEMBLY



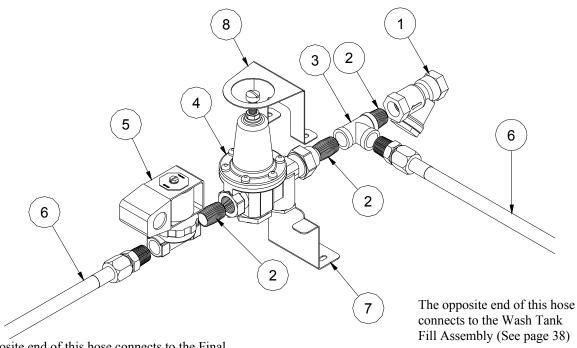
## **OVERALL ASSEMBLY:** 05700-003-77-49

44" Wash doors use 2 assemblies 22" Pre-Wash doors use 1 assembly



Item	QTY	Description	Part Number
1	1	CASTING, DOOR SPRING MOUNT	09515-003-73-78
2	1	SPRING, DOOR	05315-002-67-29
3	2	SPINDLE, DOOR SPRING	05700-002-67-28
4	1	PIN, DOOR SPRING	05700-002-83-55
5	1	DOOR SPRING BRACKET WELDMENT	05700-003-74-10
6	2	WASHER, 1/4" S/S	05311-174-01-00
7	6	LOCKNUT, 1/4"-20 HEX W/NYLON INSERT	05310-374-01-00
8	1	PIN, COTTER, 3/32" X 3/4"	05315-207-01-00

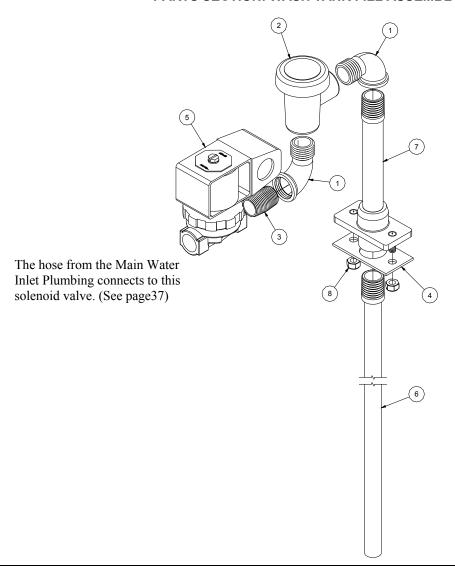
## PARTS SECTION: PLUMBING ASSEMBLY, MAIN WATER INLET



The opposite end of this hose connects to the Final Rinse Assembly (See page 44). For units with the Booster Heater Option, this hose will connect to the booster heater inlet. (See page 64)

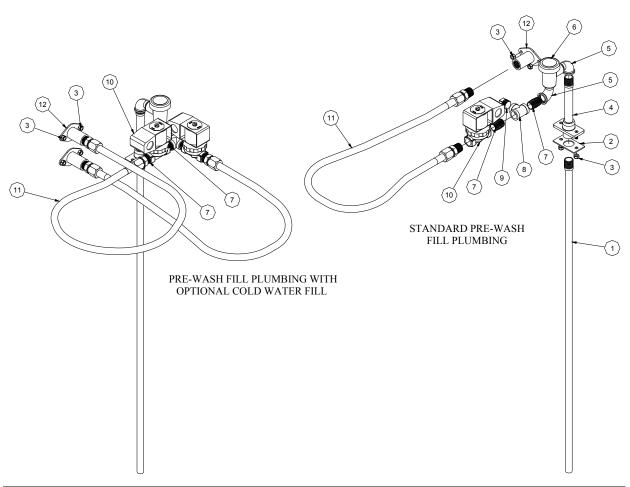
Item	QTY	Description	Part Number
1	1	STRAINER, INLET, 1/2"	04730-217-01-10
2	3	NIPPLE, 1/2", CLOSE, BRASS	04730-207-15-00
3	1	TEE, BRASS, 1/2" X 1/2" X 1/2"	04730-211-27-00
4	1	REGULATOR, 1/2"	04820-100-04-07
5	1	VALVE, 1/2" NPT BRASS, 24VDC COIL	04810-003-75-16
6	2	HOSE, 1/2" X 42" S/S BRAIDED W/PTFE, MALE SWIVEL	04720-003-76-09
7	1	BRACKET, INLET PLUMBING SUPPORT	05700-003-74-42
8	1	BRACKET, UPPER INLET PLUMBING SUPPORT	05700-003-74-86

## PARTS SECTION: WASH TANK FILL ASSEMBLY



Item	QTY	Description	Part Number
1	2	ELBOW, 90 DEGREE, 1/2" STREE, BRASS	04730-206-08-00
2	1	VACUUM BREAKER, 1/2" VACUUM BREAKER REPAIR KIT	04820-003-06-13 06401-003-06-23
3	1	NIPPLE, 1/2" CLOSE, BRASS	04730-207-15-00
4	1	GASKET, RINSE MANIFOLD	05330-003-75-91
5	1	VALVE, 1/2" NPT BRASS, 24VDC COIL	04810-003-75-16
6	1	TUBE WELDMENT, TANK FILL	05700-003-76-81
7	1	TANK FILL INJECTOR WELDMENT	05700-003-76-84
8	2	LOCKNUT, 1/4"-20 HEX WITH NYLON INSERT (NOT SHOWN)	05310-374-01-00

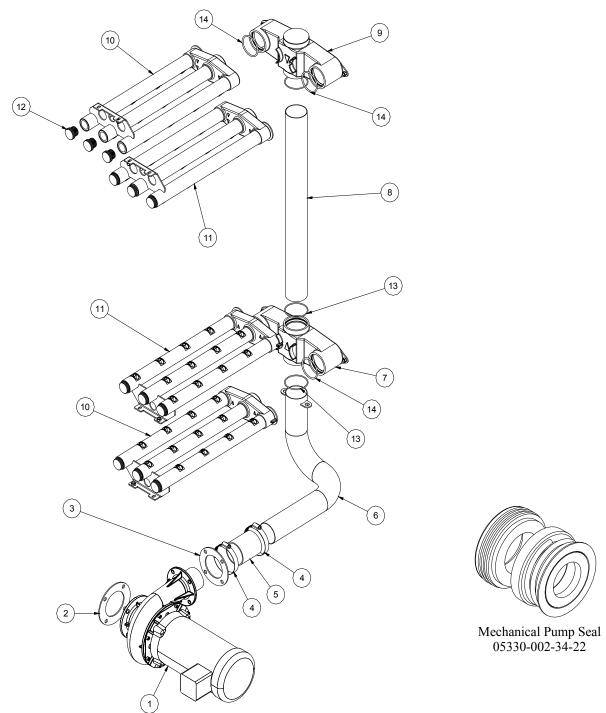
#### PARTS SECTION: PRE-WASH TANK FILL ASSEMBLIES



Item	QTY (*)	Description	Part Number
1	1	TUBE WELDMENT, TANK FILL	05700-003-76-81
2	1	GASKET, RINSE MANIFOLD	05330-003-75-91
3	4 (6)	LOCKNUT, 1/4"-20 HEX WITH NYLON INSERT (NOT SHOWN)	05310-374-01-00
4	1	TANK FILL INJECTOR WELDMENT	05700-003-76-84
5	2	ELBOW, 90 DEGREE, 1/2" STREET, BRASS	04730-206-08-00
6	1	VACUUM BREAKER, 1/2" VACUUM BREAKER REPAIR KIT	04820-003-06-13 <b>06401-003-06-23</b>
7	2 (3)	NIPPLE, 1/2" CLOSE, BRASS	04730-207-15-00
8	1	TEE, 1/2 x 1/2 x 1/2 NPT BRASS	04730-211-27-00
9	1 (0)	PLUG, 1/2 NPT BRASS (REMOVED FOR COLD WATER FILL OPTION)	04730-209-03-00
10	1 (2)	VALVE, 1/2" NPT BRASS, 24VDC COIL	04810-003-75-16
11	1 (2)	HOSE, 1/2" X 42" S/S BRAIDED W/PTFE, MALE SWIVEL	04720-003-76-09
12	1 (2)	WATER INLET FITTING	05700-003-81-98

 $<sup>{\</sup>rm *NUMBERS\,IN\,PARENTHESIS\,DENOTE\,CHANGED\,QUANTITIES\,WHEN\,THE\,COLD\,WATER\,PRE-WASH\,FILL\,OPTION\,IS\,ADDED.}$ 

## PARTS SECTION: WASH MANIFOLD AND ARM ASSEMBLY



## PARTS SECTION: WASH MANIFOLD AND ARM ASSEMBLY (CONTINUED)

Item	QTY	Description	Part Number
1	1	PUMP & MOTOR ASSEMBLY	SEE TABLE BELOW
2	1	GASKET, PUMP SUCTION	05330-003-75-87
3	1	GASKET, PUMP DISCHARGE	05330-003-75-88
4	2	HOSE CLAMP, RANGE 2-9/16" TO 3-1/2"	04730-003-15-40
5	1	HOSE, WASH PUMP DISCHARGE	05700-003-77-62
6	1	(L-R MACHINES) LOWER MANIFOLD (R-L MACHINES) LOWER MANIFOLD	05700-003-74-29 05700-003-74-28
7	1	CASTING, WASH MANIFOLD	09515-003-71-50
8	1	TUBE, MANIFOLD RISER	05700-003-72-37
9	1	WASH MANIFOLD WELDMENT, UPPER	05700-003-73-66
10	2	WASH ARM WELDMENT, RIGHT	05700-003-75-80
11	2	WASH ARM WELDMENT, LEFT	05700-003-75-79
12	12	CAP, THREADED	04730-603-12-00
13	3	O-RING, SILICONE, .103 DIA., 2-1/2" X 2-11/16" OD	05330-003-73-71
14	4	O-RING, SILICONE, .139 DIA., 2-1/4" ID X 2-1/2" OD	05330-003-73-72

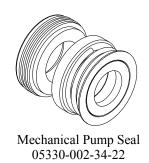
PUMP & MOTOR ASSEMBLY	Part Number
WASH PUMP, 3HP 208V 60HZ 3-PHASE	06105-003-76-11
WASH PUMP, 3HP 230V 60HZ 3-PHASE	06105-003-76-11
WASH PUMP, 3HP 460V 60HZ 3-PHASE	06105-003-76-11
WASH PUMP, 3HP 208V 60HZ 1-PHASE	06105-003-76-13
WASH PUMP, 3HP 230V 60HZ 1-PHASE	06105-003-76-13

## PARTS SECTION: PRE-WASH MANIFOLD AND ARM ASSEMBLIES (12) (13) 8 (16) (14 (11) **ILLUSTRATES PARTS** (8) FOR A LEFT TO RIGHT PRE-WASH (16)(8) (10) (11) **ILLUSTRATES PARTS** FOR A RIGHT TO LEFT (16 PRE-WASH 8 (10) 8 7 (2) 4 Mechanical Pump Seal 05330-002-34-22

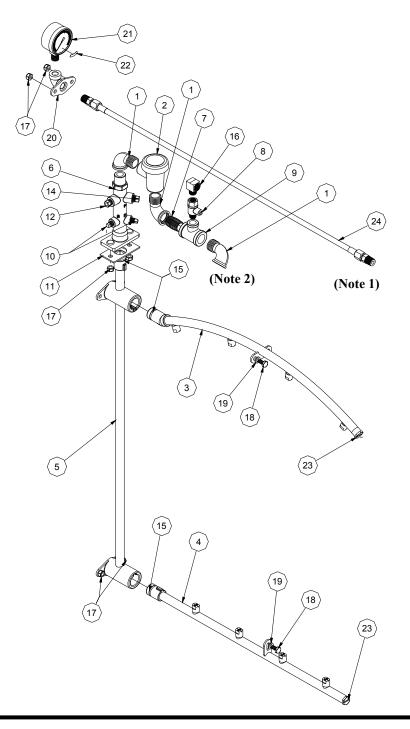
## PARTS SECTION: PRE-WASH MANIFOLD AND ARM ASSEMBLY (CONTINUED)

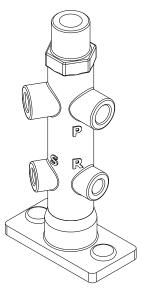
Item	QTY	Description	Part Number
1	1	PUMP & MOTOR ASSEMBLY	SEE TABLE BELOW
2	1	GASKET, PUMP SUCTION	05330-003-75-87
3	1	GASKET, PUMP DISCHARGE	05330-003-75-88
4	2	HOSE CLAMP, RANGE 2-9/16" TO 3-1/2"	04730-003-15-40
5	1	HOSE, WASH PUMP DISCHARGE	05700-003-77-62
6	1	LOWER MANIFOLD (L-R UNITS)	05700-003-81-54
7	1	LOWER MANIFOLD (R-L UNITS)	05700-003-81-79
8	3	O-RING, SILICONE, .103 DIA., 2-1/2" X 2-11/16" OD	05330-003-73-71
9	2	O-RING, SILICONE, .139 DIA., 2-1/4" ID X 2-1/2" OD	05330-003-73-72
10	1	CASTING, PRE-WASH MANIFOLD	09515-003-77-22
11	1	TUBE, MANIFOLD RISER	05700-003-81-53
12	1	PRE-WASH MANIFOLD WELDMENT, UPPER	05700-003-81-76
13	1	WASH ARM WELDMENT, LEFT	05700-003-75-79
14	1	WASH ARM WELDMENT, RIGHT	05700-003-75-80
15	1	PRE-WASH ARM WELDMENT, LOWER	05700-003-80-96
16	4	CAP, THREADED	04730-603-12-00

PUMP & MOTOR ASSEMBLY	Part Number
PRE-WASH PUMP, 2HP 208V 60HZ 3-PHASE	06105-003-76-12
PRE-WASH PUMP, 2HP 230V 60HZ 3-PHASE	06105-003-76-12
PRE-WASH PUMP, 2HP 460V 60HZ 3-PHASE	06105-003-76-12
PRE-WASH PUMP, 2HP 208V 60HZ 1-PHASE	06105-003-76-14
PRE-WASH PUMP, 2HP 230V 60HZ 1-PHASE	06105-003-76-14



#### PARTS SECTION: RINSE ASSEMBLY





# RINSE INJECTOR CONNECTIONS

P: PRESSURE SWITCH

S: SANITIZER R: RINSE AID

#### **Note 1:**

This hose connects to part #16 at one end and to part #20 at the opposite end.

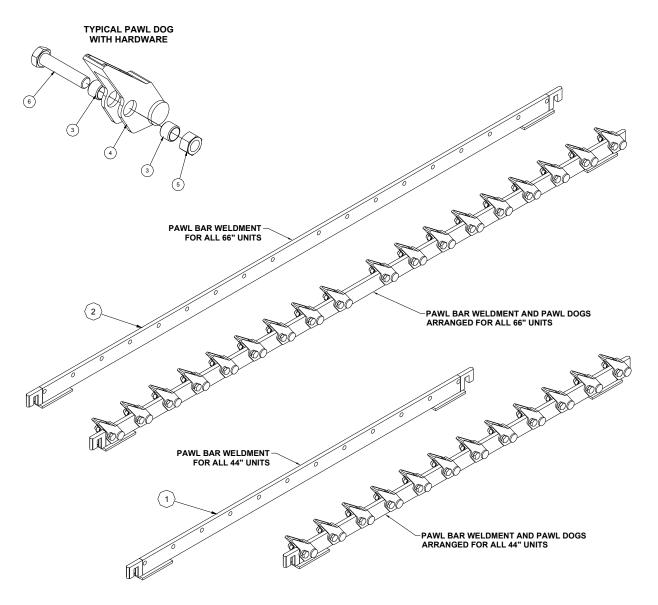
#### Note 2:

A hose from the Main Water Inlet Assembly connects to this elbow. (See page 37) For units with the Booster Heater Option, the hose will connect to the booster heater outlet. (See page 64)

## PARTS SECTION: RINSE ASSEMBLY (CONTINUED)

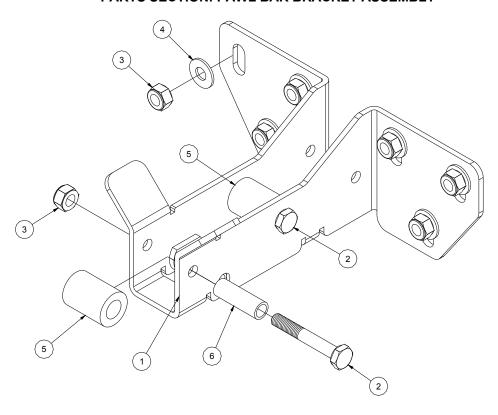
Item	QTY	Description	Part Number
1	3	ELBOW, 90 DEGREE 1/2 STREET BRASS	04730-206-08-00
2	1	VACUUM BREAKER 1/2"	04820-003-06-13
3	1	UPPER RINSE ARM	05700-003-76-02
4	1	LOWER RINSE ARM	05700-003-76-04
5	1	RINSE MANIFOLD	05700-003-76-79
6	1	RINSE INJECTOR (L-R UNITS) RINSE INJECTOR (R-L UNITS)	05700-003-76-82 05700-003-76-83
7	1	NIPPLE- 1/2 CLOSE BRASS	04730-207-15-00
8	1	VALVE, BALL TEST COCK 1/4" BRONZE	04810-011-72-67
9	1	TEE, 1/2 FNPT X 1/2 FNPT 1/4 FNPT	04730-002-22-56
10	2	PLUG, 1/8 N.P.T. BRASS	04730-209-07-37
11	1	GASKET, RINSE MANIFOLD	05330-003-75-91
12	1	FITTING, IMPERIAL BRASS	05310-924-02-05
14	1	PLUG, 1/4 211P-4	04730-209-01-00
15	3	O-RING, SILICON .103 DIA.,11/16 X 7/8 OD	05330-003-77-82
16	1	ELBOW, BRASS 90 DEGREE 1/4 NPTM x 1/4 NPTF	04730-003-77-83
17	6	LOCKNUT, 1/4-20 HEX W/NYLON INSERT	05310-374-01-00
18	2	BOLT, 1/4-20 X 1/2 LONG	05305-274-02-00
19	2	LOCKWASHER, SPRING 1/4	05311-274-01-00
20	1	ELBOW WELDMENT, TEMP GAUGE	05700-003-77-12
21	1	GAUGE, 0-100# PRESSURE	06685-111-88-34
22	1	DECAL 15-25 PSI	09905-002-97-74
23	2	END PLUG	05700-011-35-92
24	1	HOSE, 1/4x30" SS BRAIDED W/PTFE, MALE SWIVEL	04720-003-76-10

#### PARTS SECTION: PAWL BAR ASSEMBLIES



Item	QTY	Description	Part Number
1	1	PAWL BAR WELDMENT (44" Units)	05700-031-72-77
2	1	PAWL BAR WELDMENT (66" Units)	05700-003-89-34
3	24 (44" Units) 36 (66" Units)	SPACER, PAWL BAR DOG	05700-011-71-45
4	12 (44" Units) 18 (66" Units)	PAWL BAR DOG CASTING	09515-021-69-00
5	12 (44" Units) 18 (66" Units)	LOCKNUT, 3/8"-16 W/NYLON INSERT	05310-011-72-55
6	12 (44" Units) 18 (66" Units)	BOLT, 3/8"-16 X 1-3/4" LONG	05306-011-36-94

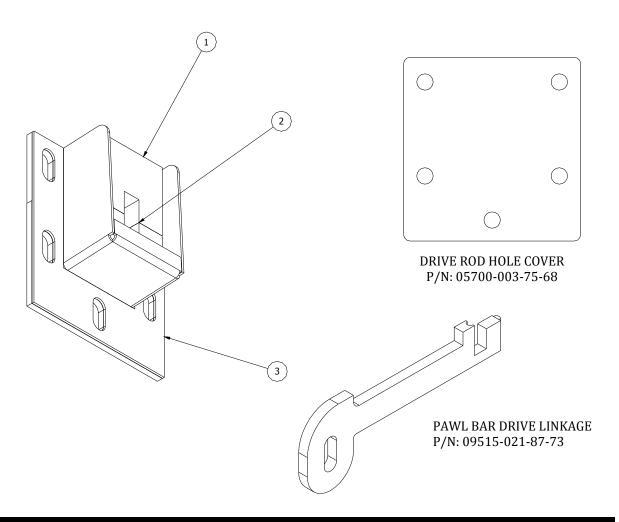
## PARTS SECTION: PAWL BAR BRACKET ASSEMBLY



The PAWL BAR ROLLER REPLACEMENT KIT comes with items 2, 3, 5 and 6.

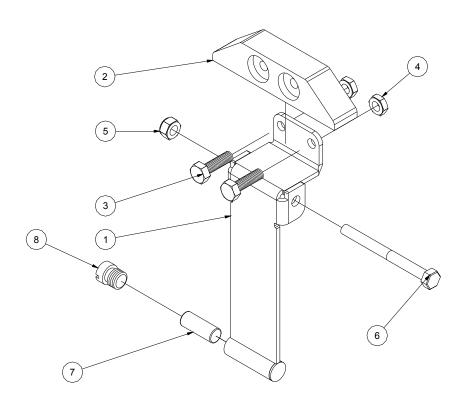
Item	QTY	Description	Part Number
1	1	PAWL BAR BRACKET WELDMENT	05700-003-74-39
2	2	SCREW, 1/4"-20 X 1-3/4" HEX HEAD	05305-274-10-00
3	8	LOCKNUT, 1/4"-20 HEX W/NYLON INSERT	05310-374-01-00
4	6	WASHER, S/S	05311-174-01-00
5	2	ROLLER, BRACKET ROD	05700-011-68-16
6	2	SHAFT, ROLLER, 3/8" X 1.13"	05700-011-68-14
		PAWL BAR ROLLER REPLACEMENT KIT	06401-003-11-80

## PARTS SECTION: PAWL BAR GUTTER ASSEMBLY



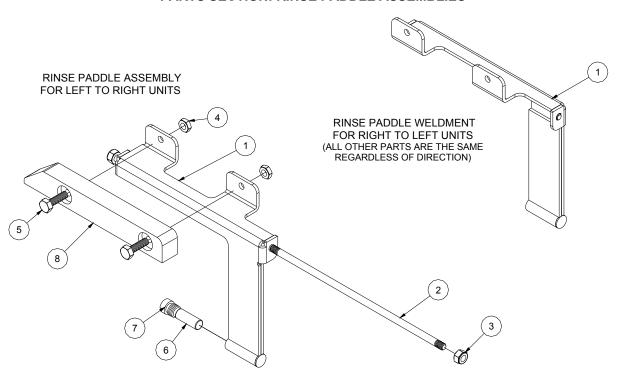
Item	QTY	Description	Part Number
1	1	TOP GUIDE BLOCK	05700-011-69-49
2	1	BOTTOM GUIDE BLOCK	05700-011-69-50
3	1	PAWL BAR GUTTER WELDMENT	05700-021-66-86
4	1	DRIVE GUTTER GASKET (NOT SHOWN)	05330-011-68-55
	1	GUTTER WELDMENT REPLACEMENT KIT (W/HARDWARE)	06401-003-09-95
	1	GUIDE BLOCK REPLACEMENT KIT	06401-003-10-15

## PARTS SECTION: RACK PADDLE ASSEMBLY



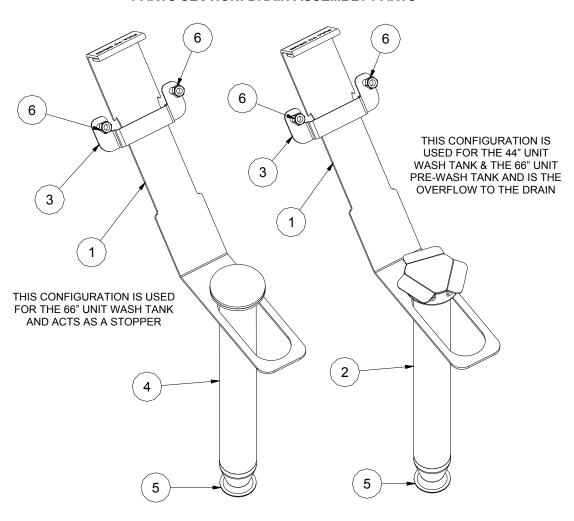
Item	QTY	Description	Part Number
1	1	RACK PADDLE WELDMENT	05700-003-76-71
2	1	BUMPER, RACK PADDLE	09330-003-74-82
3	2	SCREW, 1/4"-20 X 7/8" SS HH	05305-274-05-00
4	2	LOCKNUT, 1/4"-20 LOW PROFILE W/NYLON INSERT	05310-374-02-00
5	1	LOCKNUT, 1/4"-20 HEX W/NYLON INSERT	05310-374-01-00
6	1	SCREW, 1/4"-20 X 2-3/4" HEX HEAD	05305-003-31-63
7	1	MAGNET	05930-003-31-63
8	1	WASH/RINSE END CAP	05700-011-60-92
	1	ENTIRE ASSEMBLY	05700-003-76-74

#### PARTS SECTION: RINSE PADDLE ASSEMBLIES



Item	QTY	Description	Part Number
1	1	RINSE PADDLE WELDMENT (L-R) RINSE PADDLE WELDMENT (R-L)	05700-003-81-91 05700-003-81-96
2	1	STUD, 1/4"-20 X 8.50" LONG, S/S, DOUBLE ENDED THREAD	05306-003-76-31
3	2	LOCKNUT, 1/4"-20 HEX W/NYLON INSERT	05310-374-01-00
4	2	LOCKNUT, 1/4"-20 LOW PROFILE W/NYLON INSERT	05310-374-02-00
5	4	SCREW, 1/4-20 x 7/8" HEX HEAD S/S	05305-274-05-00
6	4	MAGNET	05930-003-31-63
7	1	END CAP	05700-011-60-92
8	1	BUMPER, RINSE PADDLE	09330-003-81-04
	1	ENTIRE ASSEMBLY (L-R) ENTIRE ASSEMBLY (R-L)	05700-003-81-92 05700-003-81-95

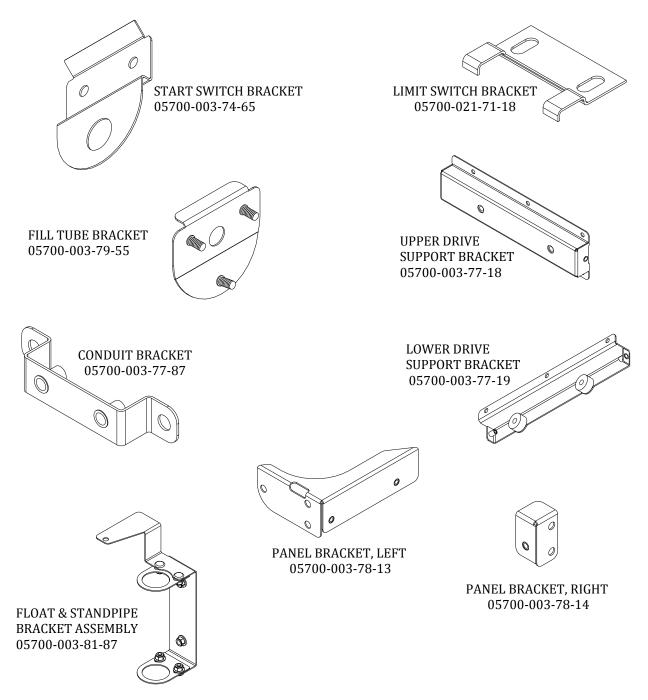
#### **PARTS SECTION: DRAIN ASSEMBLY PARTS**



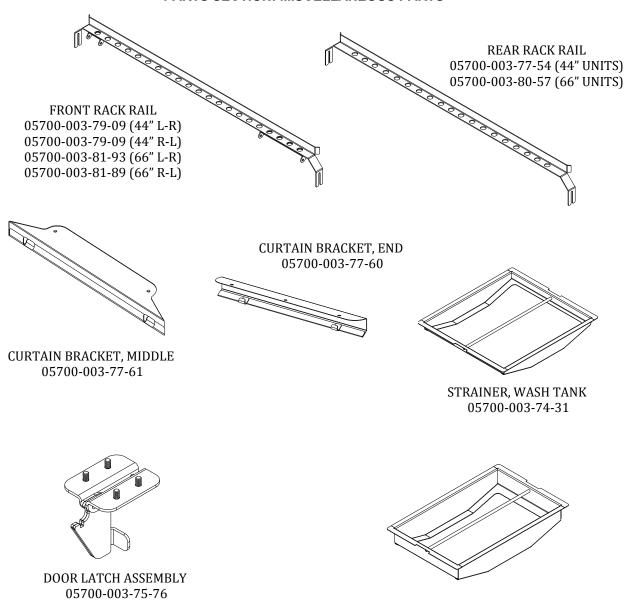
Item	QTY	Description	Part Number
1	1	DRAIN HANDLE	05700-003-83-66
2	1	DRAIN STANDPIPE (OVERFLOW)	05700-003-75-55
3	2	DRAIN HANDLE BRACKET	05700-003-83-67
4	2	DRAIN STANDPIPE	05700-003-82-76
5	1	O-RING, VITON	05330-400-05-00
6	2	LOCKNUT, 1/4-20 HEX W/NYLON INSERT	05310-374-01-00

## PARTS SECTION: COVERS, GUARDS AND PANELS TOP PANEL ASSEMBLY 05700-003-78-06 (44" & 66" UNITS) PRE-WASH TOP PANEL ASSEMBLY **HANDLE** W/HANDLE: 05700-003-82-49 05700-002-67-21 LEFT SIDE PANEL 05700-003-73-82 (Electric Units & Steam L-R) 05700-003-83-87 (Steam R-L) COVER, WASH HEATER 05700-003-74-73 (ELECTRICALLY HEATED RIGHT SIDE PANEL UNITS ONLY) 05700-003-73-81 CONTROL DRESS PANEL (Electric Units & Steam R-L) 05700-003-78-15 05700-003-83-71 (Steam L-R Units) LOWER DRESS PANEL 05700-003-72-81 (44" UNITS) 05700-003-80-42 (66" UNITS) DRIVE MOTOR GUARD 05700-003-79-45

### **PARTS SECTION: BRACKETS**

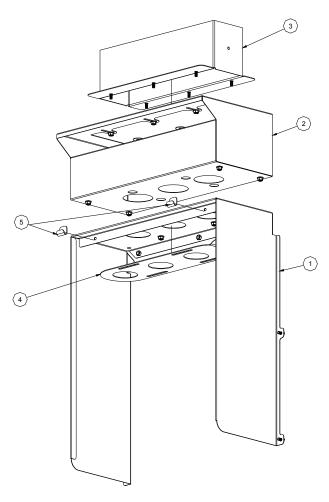


### PARTS SECTION: MISCELLANEOUS PARTS



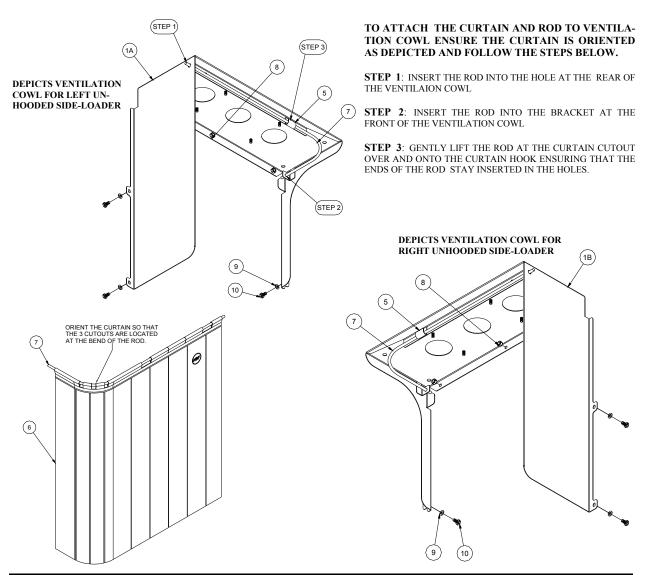
Page Created: 05-04-2010 Revised: 02-25-2011 STRAINER, PRE-WASH TANK 05700-003-80-75

## PARTS SECTION: VENTILATION COWL PARTS



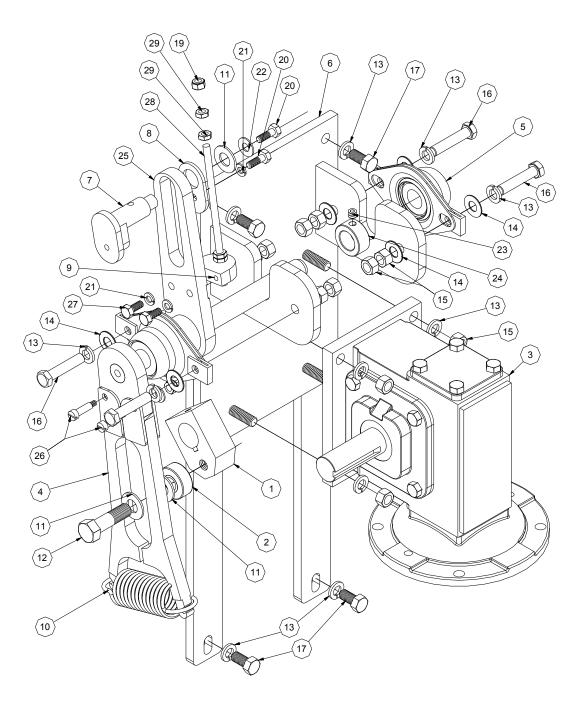
Item	QTY	Description	Part Number
1	2 1 1	VENTILATION COWL VENTILATION COWL, LEFT SIDE ( FOR DOOR ACCENT PANEL OPTION) VENTILATION COWL, RIGHT SIDE ( FOR DOOR ACCENT PANEL OPTION)	05700-003-77-50 05700-003-75-77 05700-003-75-78
2	2	VENTILATION SCOOP	05700-003-75-74
3	2	VENTILATION DUCT ADAPTER	05700-003-75-73
4	2	DAMPER, VENTILATION SCOOP	05700-003-74-76
5	4	CURTAIN HOOK	05700-003-17-98

#### PARTS SECTION: VENTILATION COWL FOR UNHOODED SIDE-LOADER OPTION



Item	QTY	Description	Part Number
1A 1B	1 1	VENTILATION COWL w/CUTOUT FOR LEFT SIDE LOADER VENTILATION COWL w/CUTOUT FOR RIGHT SIDE LOADER	05700-003-84-67 05700-003-84-66
2	1	VENTILATION SCOOP (NOT SHOWN)	05700-003-75-74
3	1	VENTILATION DUCT ADAPTER (NOT SHOWN)	05700-003-75-73
4	1	DAMPER, VENTILATION SCOOP (NOT SHOWN)	05700-003-74-76
5	2	CURTAIN HOOK	05700-003-86-10
6	1	CURTAIN, XL FOR SIDE-LOADER	08415-003-84-88
7	1	CURTAIN ROD	05700-003-84-57
8	3	LOCKNUT, 1/4-20 HEX w/NYLON INSERT	05310-374-01-00
9	3	LOCKWASHER, 1/4 ID SPRING	05311-274-01-00
10	3	BOLT, 1/4-20 x 1/2" LONG	05305-274-02-00

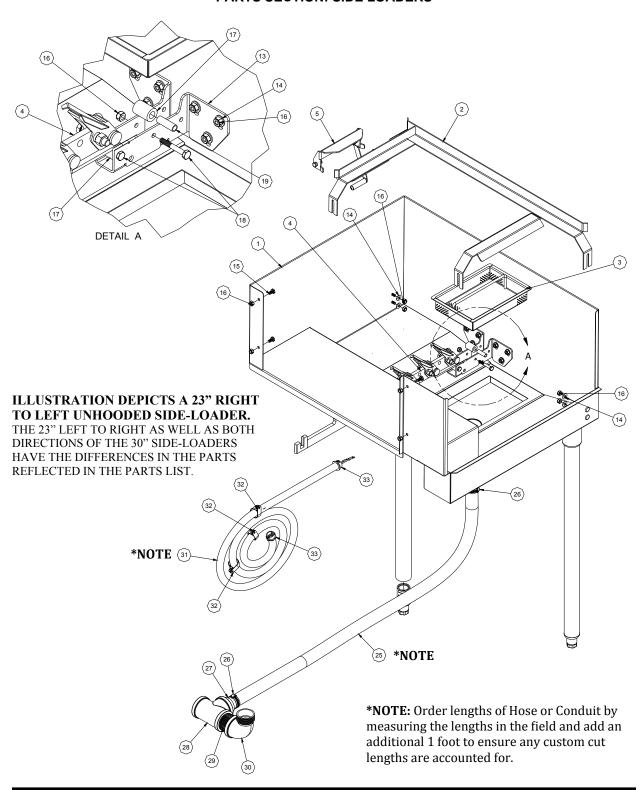
## PARTS SECTION: DRIVE ASSEMBLY



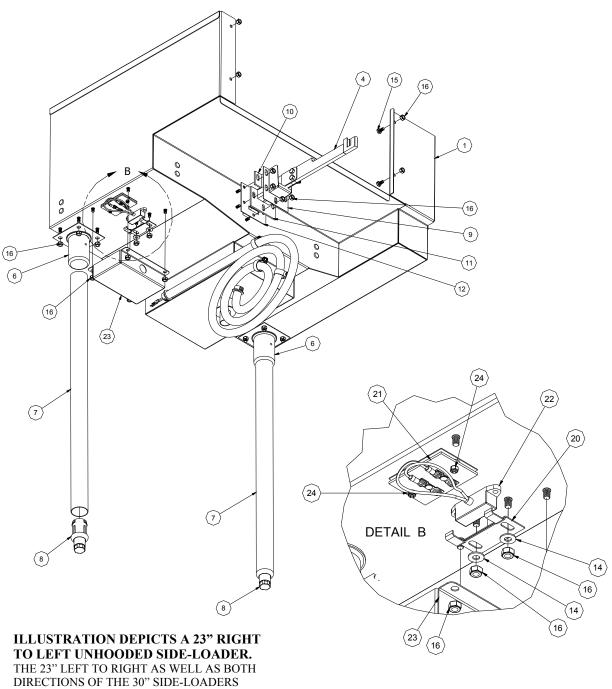
## PARTS SECTION: DRIVE ASSEMBLY

Item	QTY	Description	Part Number
1	1	HUB, DRIVE	05700-011-67-97
2	1	BEARING, ROLLER WC88013	03120-011-71-81
3	1	GEAR, 50/1 DRIVE MOTOR	06105-011-71-88
4	2	W-COUPLING & EXPANSION LEGS WELD	05700-021-67-50
5	1	BLOCK, PILLOW	03120-021-71-87
6	1	W-DRIVE SUPPORT WELDMENT	05700-003-75-61
7	1	F-SOCKET, DRIVE	05700-021-67-39
8	1	F-PLATE, SPACER	05700-011-67-58
9	1	PLATE, DRIVE ROD	05700-021-67-42
10	1	SPRING, DRIVE	05315-011-83-51
11	3	WASHER, 1/2 FLAT S/S	5311-011-71-93
12	1	BOLT, 1/2-13 X 1 3/4	05305-011-71-94
13	12	3/8 LOCKWASHER	05311-276-01-00
14	8	WASHER 3/8" FLAT S/S	05311-176-01-00
15	12	NUT, HEX 3/8-16 S/S	05310-276-01-00
16	4	BOLT, 3/8-16 X 1 3/4" LG	05306-011-36-94
17	4	3/8-16 X 3/4" LONG	05306-011-71-60
18	2	WASHER, S/S 1/4-20 I.D.	05311-174-01-00
19	4	LOCKNUT, 1/4-20 HEX W/NYLON INSERT	05310-374-01-00
20	2	BOLT, HEX HEAD 1/4 - 20 X 3/4	05305-274-04-00
21	3	LOCKWASHER, SPRING 1/4	05311-274-01-00
22	1	WASHER, 5/16 - 18 S/S	05311-175-01-00
23	1	SET SCREW, 5/16-18 X 1/4	05305-002-98-39
24	1	COLLAR, SHAFT CONVEYOR DRIVE	05700-011-89-18
25	1	W-DRIVE LEVER WELDMENT	05700-003-78-03
26	2	SCREW, 10-32 X .75 SHOULDER .25	05305-011-86-65
27	2	SCREW, 1/4-20 x 5/8 S/S HEX HEAD	05305-274-24-00
28	1	STUD, 1/4-20 x 5.75 ALL THREAD	05307-003-79-67
29	4	NUT, HEX 1/4 - 20	05310-274-01-00

#### **PARTS SECTION: SIDE LOADERS**



## PARTS SECTION: SIDE LOADERS (CONTINUED)



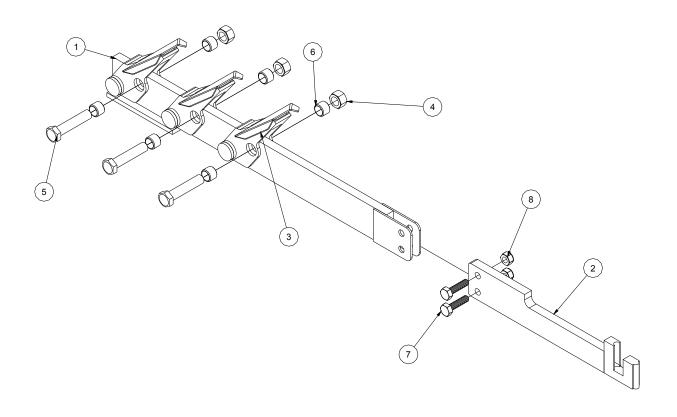
THE 23" LEFT TO RIGHT AS WELL AS BOTH DIRECTIONS OF THE 30" SIDE-LOADERS HAVE THE DIFFERENCES IN THE PARTS REFLECTED IN THE PARTS LIST.

### PARTS SECTION: SIDE LOADERS (CONTINUED)

Item	QTY	Description	Part Number
1	1 1 1 1	TUB WELDMENT, 23" SIDE-LOADER L-R TUB WELDMENT, 23" SIDE-LOADER R-L TUB WELDMENT, 30" SIDE-LOADER L-R TUB WELDMENT, 30" SIDE-LOADER R-L	05700-003-84-59 05700-003-84-58 05700-003-88-46 05700-003-88-39
2	1 1	RACK SUPPORT L-R RACK SUPPORT R-L	05700-003-90-00 05700-003-89-95
3	1	STRAINER	05700-021-85-10
4	1	PAWL BAR DRIVE LINKAGE (SEE SIDE-LOADER DRIVE LINKAGE PAGE)	05700-003-84-78
5	1	ACTUATOR SWITCH ASSEMBLY	06401-003-89-96
6	2	LEG SOCKET	05700-002-56-14
7	2	SUPPORT LEG	05700-021-87-59
8	2	FOOT, ADJUSTABLE	05340-108-01-03
9	1	GUTTER, PAWL BAR	05700-021-66-86
10	1	GUIDE BLOCK TOP-SLOTTED	05700-011-69-49
11	1	GUIDE BLOCK BOTTOM-SLOTTED	05700-011-69-50
12	1	GASKET, DRIVE GUTTER	05330-011-68-55
13	1	BRACKET, LOADER PAWL BAR SUPPORT	05700-003-87-39
14	16	WASHER, 1/4" ID STAINLESS STEEL	05311-174-01-00
15	4	BOLT, 1/4-20 x 1/2" LONG	05305-274-02-00
16	39	LOCKNUT, 1/4-20 HEX w/NYLON INSERT	05310-374-01-00
17	2	ROLLER	05700-011-68-16
18	2	SCREW, 1/4-20 x 1-3/4" LONG HEX HEAD	05305-274-10-00
19	2	ROLLER SHAFT	05700-011-68-14
20	1	BRACKET, LIMIT SWITCH	05700-021-71-18
21	1	TERMINAL BOARD	05940-011-84-41
22	1	SWITCH ASSEMBLY, SIDE-LOADER (24VDC)	05700-003-87-43
23	1	COVER, SIDE LOADER SWITCH	05700-003-87-41
24	2	LOCKNUT, 6-32 HEX w/NYLON INSERT	05310-373-03-00
25	NOTE*	DRAIN HOSE, POLYBRAID 1" ID (SEE NOTE)	*04720-011-69-16
26	2	HOSE CLAMP (RANGE: 13/16" TO 1-1/2")	04730-719-06-09
27	1	DRAIN FITTING WELDMENT	05700-021-84-61
28	1	TEE, 1-1/2" BRASS F-NPT	04730-011-69-93
29	1	NIPPLE, 1-1/2" CLOSE BRASS	04730-207-40-00
30	1	ELBOW, 90 DEG STREET, BRASS 1-1/2" NPT	04730-206-32-00
31	NOTE*	CONDUIT, 1/2" FLEX 2 (SEE NOTE)	*05975-003-33-36
32	3	CLAMP, 1" NYLON	04730-002-41-88
33	2	FITTING, 1/2" STRAIGHT TWIST / SNAP	05975-003-33-27

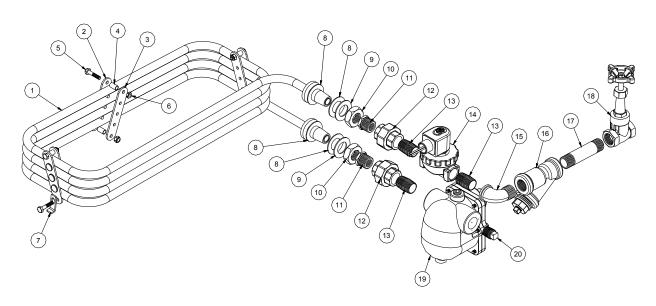
\*NOTE: Order lengths of Hose or Conduit by measuring the lengths in the field and add an additional 1 foot to ensure any custom cut lengths are accounted for.

## PARTS SECTION: SIDE LOADER DRIVE LINKAGE



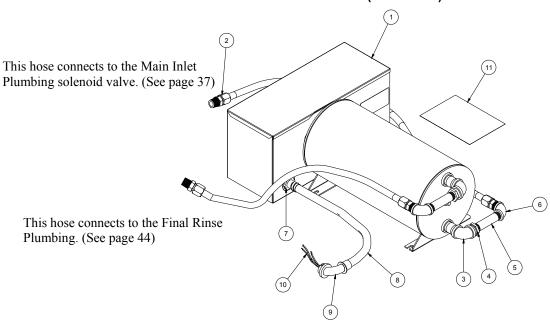
Item	QTY	Description	Part Number
1	1	PAWL BAR, SIDE LOADER	05700-021-86-88
2	1	DRIVE LINKAGE, SIDE LOADER	05700-001-99-16
3	3	PAWL DOG w/WING	05700-021-86-79
4	3	LOCKNUT, 3/8-16 w/NYLON INSERT	05310-011-72-55
5	3	BOLT, 3/8-16 x 1-3/4" LONG HEX HEAD	05306-011-36-94
6	6	SPACER, PAWL BAR DOG	05700-011-71-45
7	3	SCREW, 1/4-20 x 1" LONG HEX HEAD	05305-274-27-00
8	3	LOCKNUT, 1/4-20 HEX w/NYLON INSERT	05310-374-01-00

## PARTS SECTION: STEAM HEATING COIL ASSEMBLY



Item	QTY	Description	Part Number
1	1	STEAM COIL WELDMENT	05700-003-83-70
2	3	STEAM COIL SPACER WELDMENT	05700-003-83-33
3	3	PLATE, STEAM COIL SPACER	05700-003-83-32
4	6	SLEEVE, 1/4" ID x 5/8"LONG	05700-003-83-35
5	6	BOLT, 1/4-20 x 1-1/4 HEX HEAD	05305-274-22-00
6	6	LOCKNUT, 1/4-20 LOW PROFILE W/NYLON INSERT	05310-374-02-00
7	1	BRACKET, STEAM COIL ADJUSTMENT	05700-003-83-79
8	4	GASKET, STEAM COIL	05700-001-17-86
9	2	WASHER, STEAM COIL ADAPTER	05700-001-17-87
10	2	NUT, STEAM COIL ADAPTER	05310-011-17-85
11	2	REDUCER, 3/4 NPTM x 1/2 NPTF BLACK IRON	04730-911-02-34
12	2	UNION, 3/4 NPT BLACK IRON	04730-912-01-00
13	3	NIPPLE, CLOSE 3/4 NPT BLACK IRON	04730-907-01-00
14	1	VALVE, 3/4 STEAM 110VOLT COIL	04820-011-87-39
15	1	ELBOW, 3/4 NPT STREET, BLACK IRON	04730-011-87-37
16	1	Y-STRAINER, 3/4 NPT STEAM	04730-217-01-32
17	1	NIPPLE, 3/4 NPT x 4" LONG, BLACK IRON	04730-907-02-34
18	1	VALVE, GATE 3/4 NPT STEAM	04820-100-19-00
19	1	TRAP, STEAM 3/4 NPT	06680-500-02-77
20	1	PLUG, 3/4 NPT SQUARE HEAD, BLACK IRON	04730-002-86-59

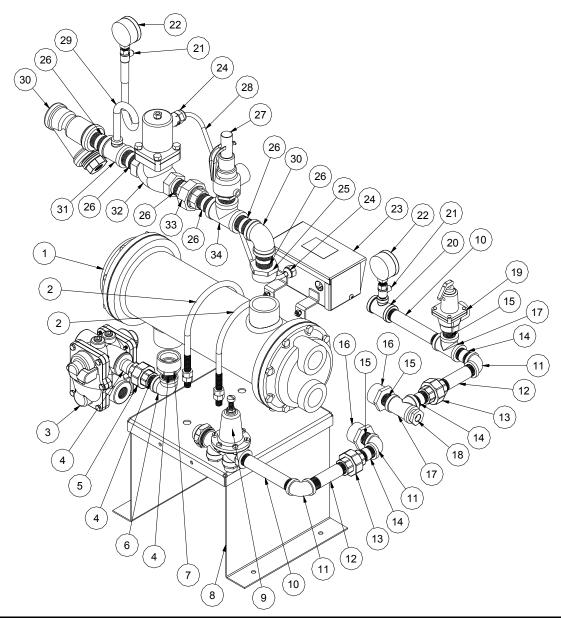
## PARTS SECTION: BOOSTER HEATER OPTION (ELECTRIC)



Item	QTY	Description	Part Number
1	1	BOOSTER HEATER	SEE CHART BELOW
2	2	HOSE, 1/2 x 42" SS BRAIDED W/PTFE, MALE SWIVEL	04720-003-76-09
3	2	ELBOW, 3/4 NPT 90 DEGREE BRASS	04730-206-13-00
4	2	BUSHING, 3/4 MNPT x 1/2 FNPT HEX BRASS	04730-002-56-27
5	2	NIPPLE, 1/2 NPT x 4" LONG BRASS	04730-207-04-00
6	2	ELBOW, 1/2 NPT 90 DEGREE BRASS	04730-011-42-96
7	1	FITTING, 3/4 STRAIGHT QT SNAP (HEYCO-8495)	05975-003-77-46
8	1	CONDUIT, FLEX2 1/2 x 24" LONG	05700-003-79-40
9	1	FITTING, 3/4 90 DEGREE QT SNAP (HEYCO-8510)	05975-003-77-45
10	3	WIRE, 10AWG BLK SRML FIBERGLASS (3 FEET)	06145-003-13-97
11	1	SCHEMATIC (REFER TO THE BOOSTER HEATER SCHEMATIC PAGES FOR PART NUMBER)	

BOOSTER HEATER	Part Number
12 kW (40 degree F Rise) 208V 3-PHASE	04540-003-76-58
12 kW (40 degree F Rise) 240V 3-PHASE	04540-003-76-60
12 kW (40 degree F Rise) 480V 3-PHASE	04540-003-76-62
12 kW (40 degree F Rise) 208V 1-PHASE	04540-003-76-57
12 kW (40 degree F Rise) 240V 1-PHASE	04540-003-76-59
17.3 kW (70 degree F Rise) 208V 3-PHASE	04540-003-76-64
18 kW (70 degree F Rise) 240V 3-PHASE	04540-003-76-66
18 kW (70 degree F Rise) 480V 3-PHASE	04540-003-76-68
18 kW (70 degree F Rise) 208V 1-PHASE	04540-003-76-63
18 kW (70 degree F Rise) 240V 1-PHASE	04540-003-76-64

#### PARTS SECTION: STEAM BOOSTER HEATER OPTION



Item	QTY	Description	Part Number
1	1	STEAM BOOSTER HEATER, ST-T120	04420-002-43-94
2	2	U-BOLT, 1/2-13 THREAD, ZINC COADTED	05306-002-89-27
3	1	STEAM TRAP, 3/4 NPT-F & T TYPE	06680-500-02-77
4	3	NIPPLE, CLOSE 3/4 NPT, BLACK IRON	04730-907-01-00
5	1	UNION, 3/4 NPT, BLACK IRON	04730-912-01-00
6	1	ELBOW, 90 DEG. 3/4 NPT, BLACK IRON	04730-906-10-34
7	1	REDUCER, 1-1/2 NPT-M x 3/4 NPT-F, BLACK IRON	04730-002-36-81

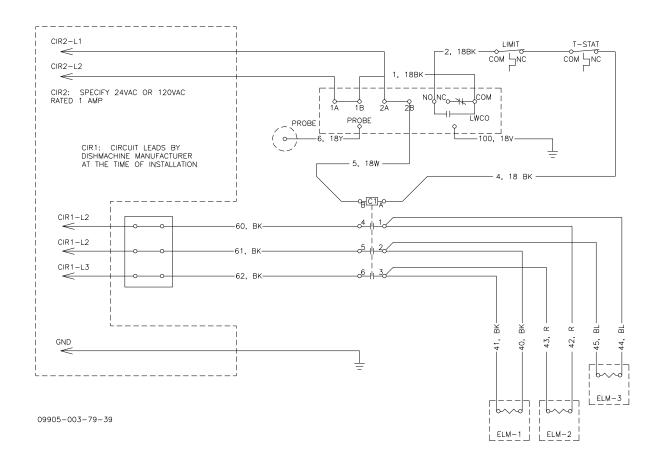
## PARTS SECTION: STEAM BOOSTER HEATER OPTION (CONTINUED)

Item	QTY	Description	Part Number
8	1	W-PLATFORM, J120 STEAM BOOSTER	05700-002-36-72
9	1	REGULATING VALVE, 3/4 NPT-F	04820-100-01-06
10	2	NIPPLE, 3/4 NPT x 6" LONG BRASS	05700-001-26-74
11	3	ELBOW, 90 DEG. 3/4 NPT BRASS	04730-206-13-00
12	2	NIPPLE, 3/4 NPT x 4" LONG BRASS	04730-207-05-00
13	2	UNION, 3/4 NPT BRASS	04730-212-05-00
14	3	NIPPLE, 3/4NPT x 2" LONG BRASS	04730-207-46-00
15	3	NIPPLE, CLOSE 3/4 NPT x 1-3/8 NPT BRASS	04730-207-34-00
16	2	BUSHING, HEX 1 1/4 X 3/4 REDUCER	04730-011-88-80
17	2	TEE, BRASS, 3/4 X 3/4 X 3/4	04730-211-01-34
18	1	ADAPTER, 3/8 FNPT X 3/4 NPT BRASS	04730-011-89-19
19	1	VALVE, STEAM RELIEF 3/4 EDP-0274751	04820-100-07-06
20	1	TEE, BRASS, 3/4 X 3/4 X 1/4	04730-211-04-00
21	2	VALVE, BALL TEST COCK 1/4 BRONZE	04810-011-72-67
22	2	PRESSURE GAUGE, 1/4 NPT-M 0-100 PSI	06685-111-88-34
23 23A 23B 23C 23D 23F	1 1 1 1 1	A-CONTROL, J120 ASSEMBLY (MAJOR COMPONENTS ARE LISTED BELOW) THERMOSTAT, CORKSCREW 351-254461 SWITCH, DPDT LIGHT, SOLICO RED INDICATING TERMINAL BLOCK, 2-POLE GROUND LUG	05700-002-98-95 06680-500-01-77 05930-011-49-55 05945-111-21-57 05940-500-09-61 05940-200-76-00
24	2	FITTING,3213 .231X.394 HEYCO	05975-011-49-03
25	1	REDUCER, 1-1/2 MNPT x 1 FNPT BLACK IRON	04730-002-36-79
26	6	NIPPLE, CLOSE 1 NPT X 2 BLACK IRON	04730-907-08-34
27	1	ELBOW, 1 NPT 90 DEG, BLACK IRON	04730-906-03-34
28	1	VALVE, SAFETY RELIEF 1 NPT	04820-100-01-35
29	1		05700-003-22-96
30	1	COUPLING, 1/4 NPT BLACK IRON	04730-904-01-04
31	1	SIPHON TUBE,PIGTAIL 1/4NPT BLACK IRON	04730-907-14-34
32	1	Y'STRAINER, 1 NPT STEAM BLACK IRON	04730-217-02-32
33	1	TEE, 1 X 1 X 1/4 NPT, BLACK IRON	04730-911-01-00
34	1	VALVE, 120V 1" NPT BRONZE STEAM	04810-002-92-23
35	1	UNION, 1 NPT BLACK IRON	04730-912-01-34
36	1	TEE, 1" NPT BLACK IRON	04730-911-01-34

#### **BOOSTER HEATER SCHEMATIC (3-PHASE)**

# USE THIS SCHEMATIC FOR THE FOLLOW-ING BOOSTER HEATER OPTIONS:

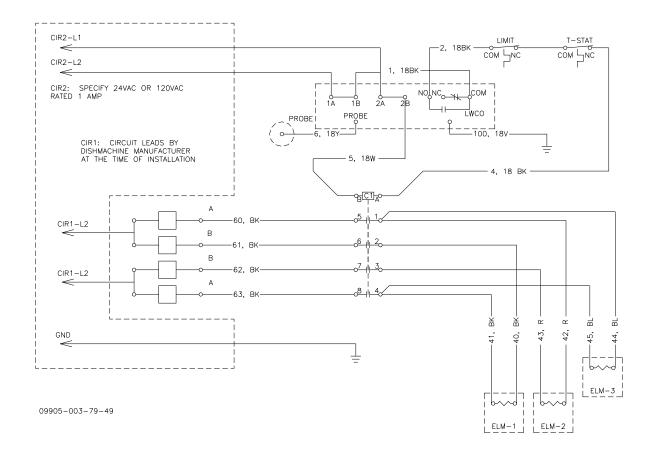
- 208V 60HZ 3-PHASE 12kW (40° RISE)
- 230V 60HZ 3-PHASE 12kW (40° RISE)
- 460V 60HZ 3-PHASE 12kW (40° RISE)
- 208V 60HZ 3-PHASE 18kW (70° RISE)
- 230V 60HZ 3-PHASE 18kW (70° RISE)
- 460V 60HZ 3-PHASE 18kW (70° RISE)



#### **BOOSTER HEATER SCHEMATIC (1-PHASE 12kW)**

# USE THIS SCHEMATIC FOR THE FOLLOW-ING BOOSTER HEATER OPTIONS:

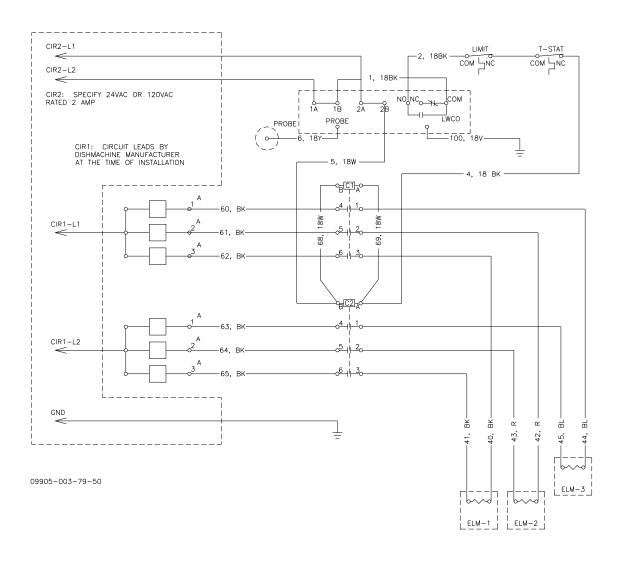
- 208V 60HZ 1-PHASE 12kW (40° RISE)
- 230V 60HZ 1-PHASE 12kW (40° RISE)



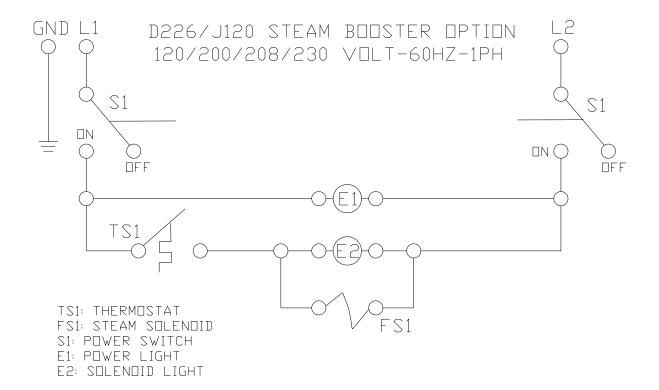
#### **BOOSTER HEATER SCHEMATIC (1-PHASE 18kW)**

# USE THIS SCHEMATIC FOR THE FOLLOW-ING BOOSTER HEATER OPTIONS:

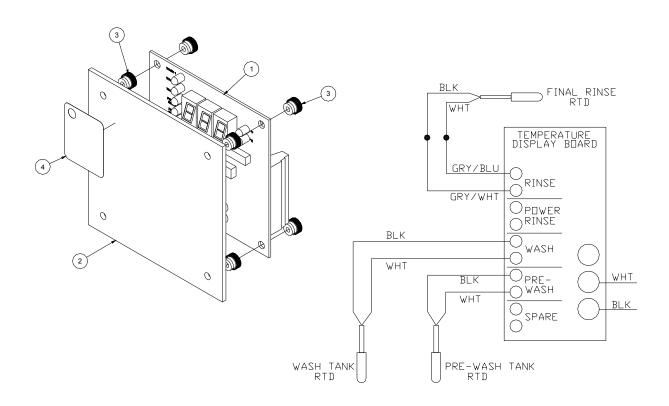
- 208V 60HZ 1-PHASE 18kW (70° RISE)
- 230V 60HZ 1-PHASE 18kW (70° RISE)



#### STEAM BOOSTER HEATER SCHEMATIC

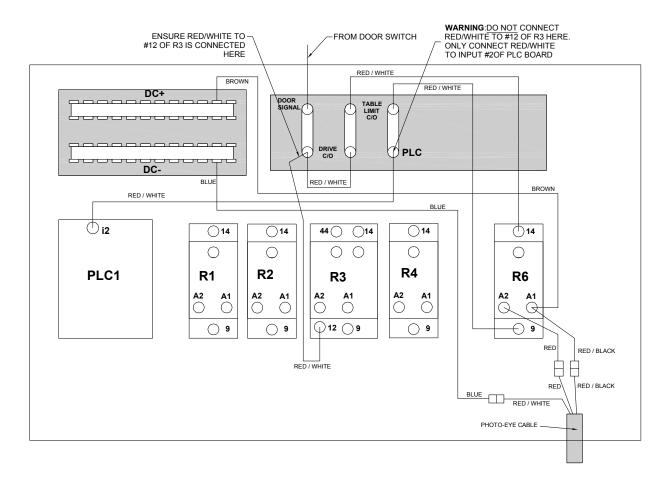


#### TEMPERATURE BOARD

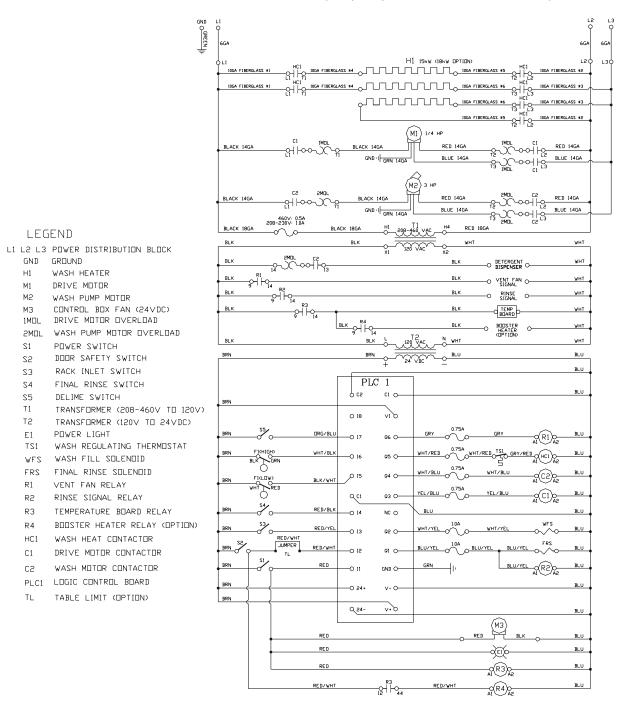


Item	QTY	Description	Part Number
1	1	CYCLIC TEMPERATURE BOARD	06685-002-74-86
2	1	GAUGE COVER, RED	05700-002-75-62
3	8	NUT, THUMB 6-32 NYLON	05310-002-83-12
4	1	DECAL, TEMPERATURE DISPLAY	09905-003-79-03
5	2 (44" Units) 3 (66" Units)	RTD TEMPERATURE PROBE (NOT SHOWN)	06680-002-16-80

#### SCHEMATIC, PHOTOCELL TABLE LIMIT SWITCH OPTION

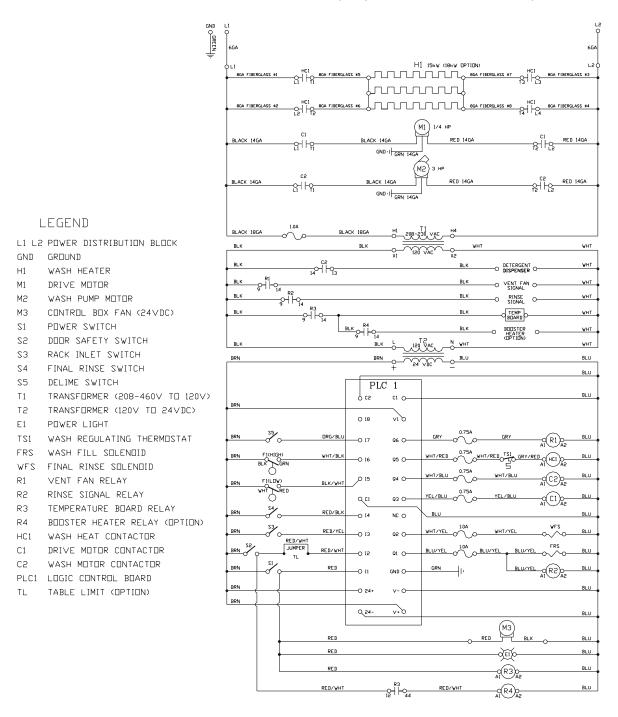


### SCHEMATIC, 44" ELECTRICALLY HEATED (208/230/460 VOLT, 60 HZ, 3 PHASE)



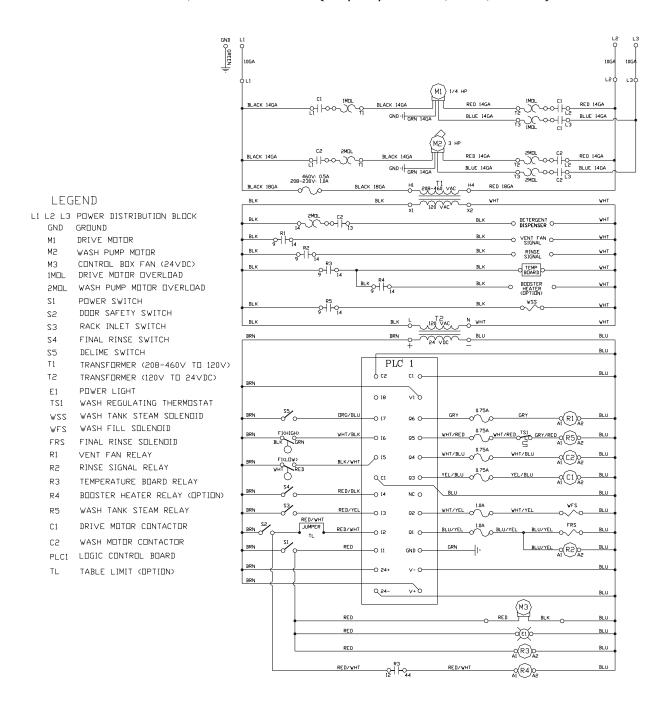
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### SCHEMATIC, 44" ELECTRICALLY HEATED (208/230 VOLT, 60 HZ, 1 PHASE)

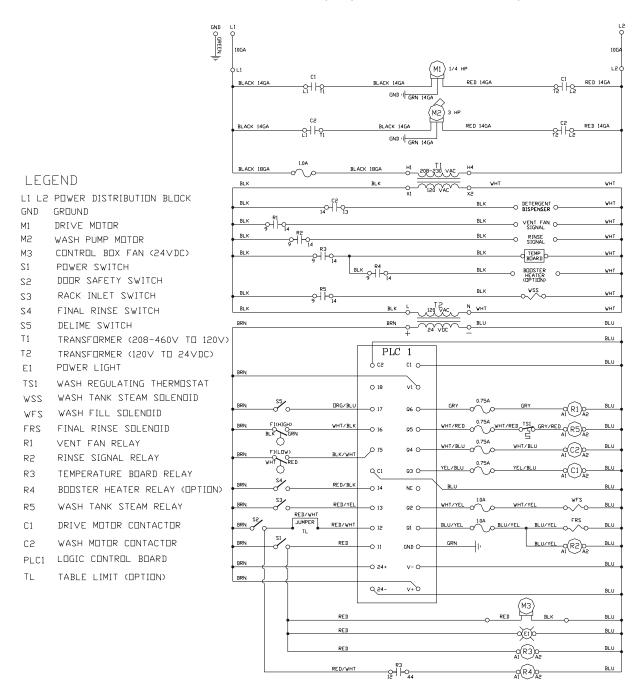


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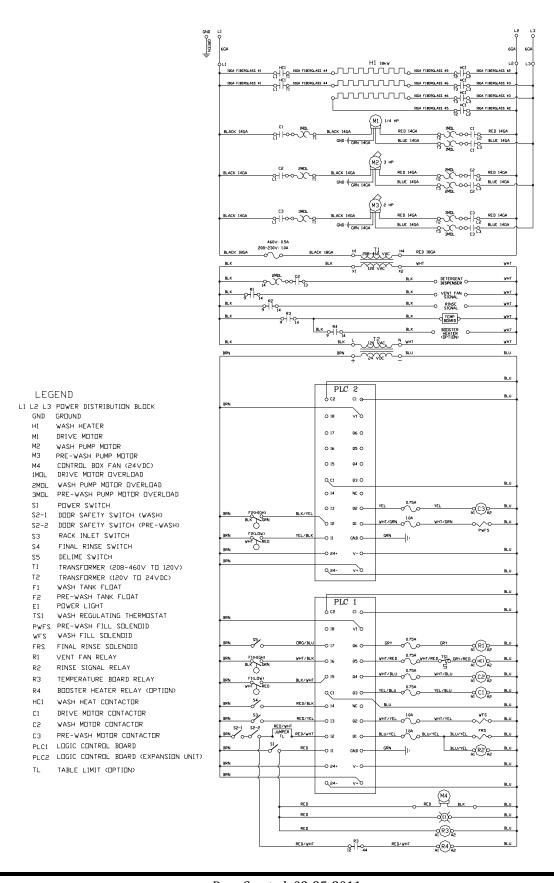
### SCHEMATIC, 44" STEAM HEATED (208/230/460 VOLT, 60 HZ, 3 PHASE)



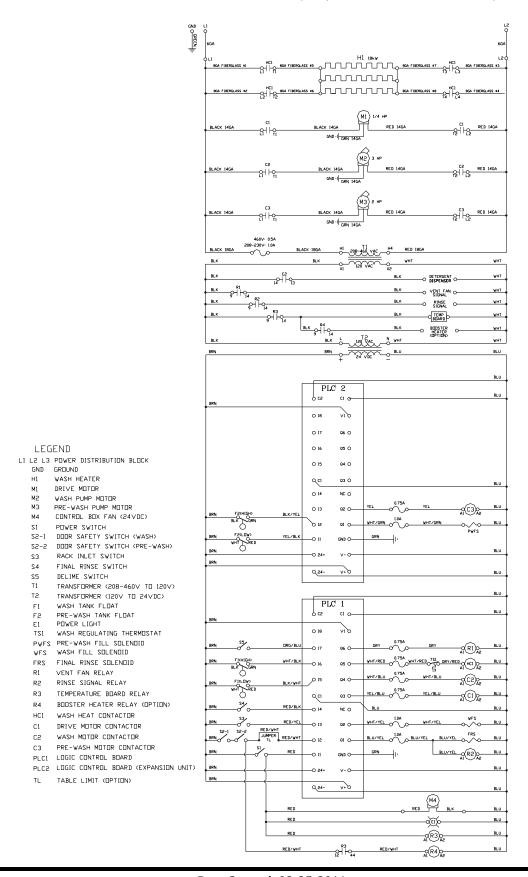
### SCHEMATIC, 44" STEAM HEATED (208/230 VOLT, 60 HZ, 1 PHASE)



### SCHEMATIC, 66" ELECTRICALLY HEATED (208/230/460 VOLT, 60 HZ, 3 PHASE)

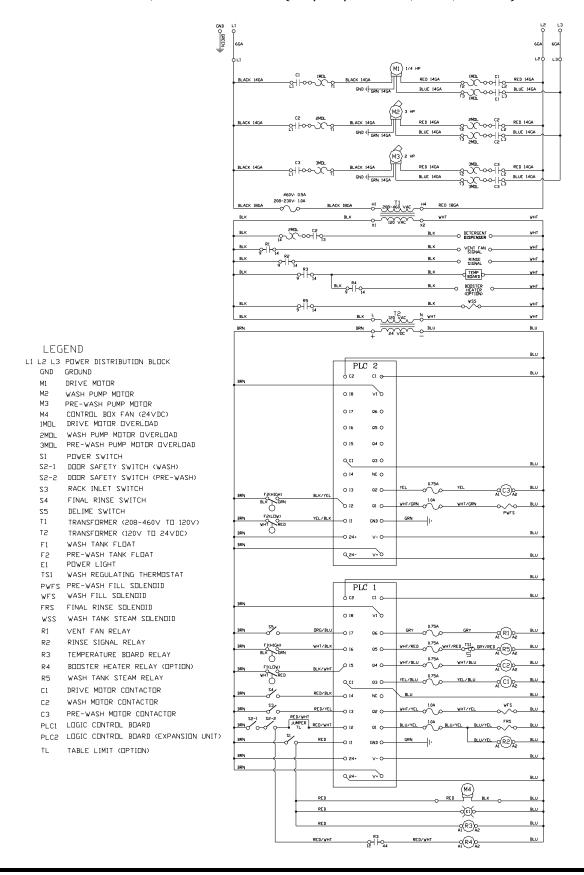


### SCHEMATIC, 66" ELECTRICALLY HEATED (208/230 VOLT, 60 HZ, 1 PHASE)

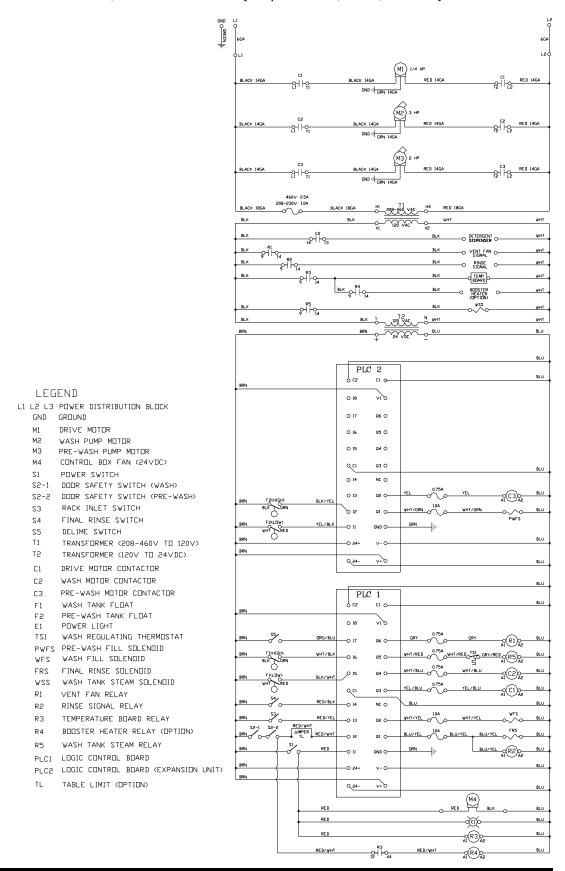


### Technical Manual (07610-003-78-18)

### SCHEMATIC, 66" STEAM HEATED (208/230/460 VOLT, 60 HZ, 3 PHASE)



### SCHEMATIC, 66" STEAM HEATED (208/230 VOLT, 60 HZ, 1 PHASE)



#### **ALABAMA**

### JONES-McLEOD APPLIANCE

SVC

1616 7TH AVE. NORTH BIRMINGHAM, AL 35203 (205) 251-0159 800-821-1150 FAX: (205) 322-1440 service@jones-mcleod.com

### JONES-McLEOD APPLIANCE

SVC

854 LAKESIDE DRIVE MOBILE, AL 36693 (251) 666-7278 800-237-9859 FAX: (251) 661-0223

### <u>ALASKA</u>

# RESTAURANT APPLIANCE SERVICE

7219 ROOSEVELT WAY NE SEATTLE, WA 98115 (206) 524-8200 800-433-9390 FAX: (206) 525-2890 info@restappl.com

#### **ARIZONA**

# AUTHORIZED COMMERCIAL FOOD EQMT. SVC

4832 SOUTH 35TH STREET PHOENIX, AZ 85040 (602) 234-2443 800-824-8875 FAX: (602) 232-5862 acsboss@aol.com

### GCS SERVICE INC.

PHOENIX, AZ (602) 474-4510 800-510-3497 FAX: (602) 470-4511

#### **ARKANSAS**

#### **BROMLEY PARTS & SVC**

10TH AND RINGO
P.O. BOX 1688
LITTLE ROCK, AR 72202
(501) 374-0281
800-482-9269
FAX: (501) 374-8352
service@bromleyparts.com
parts@bromleyparts.com

### GCS SERVICE,INC.

3717 CHERRY ROAD MEMPHIS, TN 38118 (901) 366-4587 800-262-9155 FAX: (901) 366-4588

#### **CALIFORNIA**

## BARKERS FOOD MACHINERY

SERVICES

5367 SECOND STREET IRWINDALE, CA 91706 (626) 960-9390 800-258-6999 FAX: (626) 337-4541 service@barkers.com

#### GCS SERVICE INC.

LOS ANGELES, CA (213) 683-2090 800-327-1433 FAX: (213) 683-2099

#### GCS SERVICE INC.

SANTA ANA, CA (714) 542-1798 800-540-0719 FAX: (714) 542-4787

#### GCS SERVICE INC.

S. SAN FRANCISCO, CA (650) 635-0720 800-969-4427 FAX: (650) 871-4019

### COMMERCIAL APPLIANCE

SERVICE, INC. 6507 PACIFIC AVENUE, Suite 102

STOCKTON, CA 95207 (916) 567-0203 (800) 464-2222 (916) 567-0266 FAX

### GCS SERVICE INC.

SAN DIEGO, CA (858) 549-8411 800-422-7278 FAX: (858) 549-2323

#### INDUSTRIAL ELECTRIC SVC.

5662 ENGINEER DRIVE HUNTINGTON BEACH, CA 92649 (714) 379-7100 (800-457-3783 FAX: (714) 379-7109

#### P & D APPLIANCE SVC

100 SOUTH LINDEN AVE. S. SAN FRANCISCO, CA 94080 (650) 635-1900 800-424-1414 FAX: (650) 635-1919 pndappl@aol.com

#### P & D APPLIANCE

4220-C ROSEVILLE ROAD NORTH HIGHLANDS, CA 95660 (916) 974-2772 800-824-7219 FAX:(916) 974-2774

### COMMERCIAL APPLIANCE

SERVICE, INC.

281 LATHROP WAY, #100 SACRAMENTO, CA 95815 (916) 567-0203 (800) 464-2222 (916) 567-0324 FAX

#### COLORADO

#### GCS SERVICE INC.

SHERIDAN, CO (303) 371-9054 800-972-5314 FAX: (303) 371-4754

### HAWKINS COMMERCIAL

APPLIANCE SERVICE

3000 S. WYANDOT ST. ENGLEWOOD, CO 80110 (303) 781-5548 (800) 624-2117 FAX: (303) 761-5561 johns@hawkinscommercial.com

#### METRO APPLIANCE SERVICE

1640 S BROADWAY DENVER, CO 80210 (303) 778-1126 800-525-3532 FAX: (303) 778-0268 metroappls@aol.com

#### CONNECTICUT

GCS SERVICE INC. HARTFORD, CT (860) 549-5575 800-423-1562 FAX: (860) 527-6355

#### SUPERIOR KITCHEN SERVICE INC.

22 THOMPSON ROAD WINDSOR, CT 06088 (888) 590-1899 (888) 590-1996 FAX

#### **DELAWARE**

### FOOD SERVICE EQMT.

2101 PARKWAY SOUTH BROOMALL, PA 19008 (610) 356-6900 FAX: (610) 356-2038 dancerule@aol.com

#### GCS SERVICE INC.

PHILADELPHIA, PA (215)925-6217 800-441-9115 FAX: (215) 925-6208

#### **ELMER SCHULTZ SERVICE**

36 BELMONT AVE. WILLMINGTON, DE 19804 (302) 655-8900 800-225-0599 FAX: (302) 656-3673 elmer2@erols.com

#### EMR SERVICE DIVISION

106 WILLIAMSPORT CIRCLE SALISBURY, MD 21804 (410) 543-8197 FAX: (410) 548-4038

#### **FLORIDA**

### COMMERCIAL APPLIANCE

SERVICE

8416 LAUREL FAIR CIRCLE BLDG 6, SUITE 114 TAMPA, FL 33610 (813) 663-0313 800-282-4718 FAX: (813) 663-0212 commercialappliance@world-net.att.net

#### GCS SERVICE INC

MIAMI, FL (305) 621-6666 800-766-8966 FAX: (305) 621-6656

#### GCS SERVICE INC

ORLANDO, FL (407) 841-2551 800-338-7322 FAX: (407) 423-8425

#### NASS PARTS AND SERVICE, INC.

1144 BELVILLE ROAD, UNIT 359 DAYTONA BEACH, FL 32114 (386) 226-2642 (800) 432-2795 (386) 736-7695 FAX

### GCS SERVICE INC

TAMPA, FL (813) 626-6044 800-282-3008 FAX: (813) 621-1174

#### JONES-McLEOD APPLIANCE SVC

854 LAKESIDE DRIVE MOBILE, AL 36693 (251) 666-7278 800-237-9859 FAX: (251) 661-0223 service@iones-mcleod.com

#### NASS PARTS AND SERVICE, INC.

1108 SOUTH WOODS AVENUE ORLANDO, FL 32805 (407) 425-2681 (800) 432-2795 (407) 425-3463 FAX

#### NASS PARTS AND SERVICE, INC.

1376 HEIDE AVENUE PALM BAY, FL 32907 (321) 952-2012 (800) 432-2795 (321) 953-0266 FAX

#### **GEORGIA**

#### GCS SERVICE INC

ATLANTA, GA (770) 452-7322 800-334-3599 FAX: (770) 452-7473

# HERITAGE FOODSERVICE GROUP OF ATLANTA

2100 NORCROSS PKWY. SUITE 130 NORCROSS, GA 30071 (770) 368-1465 866-388-9837 FAX: (866) 388-9838

#### WHALEY FOODSERVICE REPAIRS

109-A OWENS INDUSTRIAL DRIVE SAVANNAH, GA 31405 (912) 447-0827 888-765-0036 FAX: (912) 447-0826

#### PIERCE PARTS & SERVICE

2422 ALLEN ROAD MACON, GA 31216 (478) 781-6003 800-368-2512 FAX: (478) 781-7186

#### **HAWAII**

# FOOD EQMT. PARTS &

SERVICE CO.
300 PUUHALE RD.
HONOLULU, HI 96819
(808) 847-4871
FAX: (808) 842-1560
fepsco@hula.net

#### **IDAHO**

# **RESTAURANT APPLIANCE SVC.** 7219 ROOSEVELT WAY NE

SEATTLE, WA 98115 (206) 524-8200 800-433-9390 FAX: (206) 525-2890

info@restappl.com

#### RON'S SERVICE

703 E 44TH STREET STE 10 GARDEN CITY, ID 83714 (208) 375-4073 FAX: (208) 375-4402

#### **ILLINOIS**

#### CONES REPAIR SVC.

2408 40TH AVE. MOLINE, IL 61265 (309) 797-5323 800-716-7070 FAX: (309)797-3631 jackb@cones.com

#### EICHENAUER SERVICES INC.

130 S OAKLAND ST.
DECATUR, IL 62522
(217) 429-4229
800-252-5892
FAX: (217) 429-0226
esi@esiquality.com

#### GCS SERVICE INC.

ELMHURST, IL (630) 941-7800 800-942-9689 FAX: (630) 941-6048

#### GCS SERVICE INC.

ST. LOUIS, MO (314) 683-7444 800-284-4427 FAX: (314) 638-0135

#### GENERAL PARTS, INC.

248 JAMES STREET BENSONVILLE, IL 60106 (630) 595-3300 (800) 880-3604 FAX: (630)595-0006

#### INDIANA

#### GCS SERVICE INC.

INDIANAPOLIS, IN (317) 545-9655 800-727-8710 FAX: (317) 549-6286

#### GCS SERVICE INC.

B622 LA PAS TRAIL INDIANAPOLIS, IN 46268 (317) 290-8060 (800) 410-9794 (317) 290-8085 FAX

#### IOWA

#### GOODWIN TUCKER GROUP

2900 DELAWARE AVENUE DES MOINES, IA 50317 (515) 262-9308 800-372-6066 FAX: (515) 262-2936 parts@goodwintucker.com

#### CONES REPAIR SVC.

1056 27TH AVENUE SW CEDAR RAPIDS, IA 52404 (319) 365-3325 800-747-3326 FAX: (319) 365-0885

#### KANSAS

#### GCS SERVICE INC.

KANSAS CITY, MO (816) 920-5999 800-229-6477 FAX: (816) 920-7387

#### GENERAL PARTS, INC.

1101 E. 13TH STREET KANSAS CITY, MO 64106 (816) 421-5400 (800) 279-9967 (816) 421-1270 FAX

### <u>KENTUCKY</u>

### CERTIFIED SERVICE CENTER

127 DISHMAN LANE BOWLING GREEN, KY 42101 (270) 783-0012 (877) 907-0012 FAX: (270) 783-0058

#### CERTIFIED SERVICE CENTER

RAMCO BUSINESS PARK 4283 PRODUCE ROAD LOUISVILLE, KY 40218 (502) 964-7007 800-637-6350 FAX: (502) 964-7202 cwalker@certifiedsc.com

droenigk@certifiedsc.com

#### **CERTIFIED SERVICE CENTER**

1051 GOODWIN DRIVE LEXINGTON, KY 40505 (606) 254-8854 800-432-9269 FAX: (606) 231-7781 jatkins@certifiedsc.com

#### GCS SERVICE INC.

LOUISVILLE, KY (502) 367-1788 800-752-6160 FAX: (502) 367-0400

#### GCS SERVICE INC.

LEXINGTON, KY (606) 255-0746 800-432-9260 FAX: (606) 255-0748

#### **LOUISIANA**

### HERITAGE SERVICE GROUP

1532 RIVER OAKS WEST NEW ORLEANS, LA 70123 (504) 734-8864 (800) 499-2351 (504) 733-2559 FAX

#### MAINE

#### GCS SERVICE INC.

CHELSEA, MA (617) 889-9393 800-225-1155 FAX: (617) 889-1222

### MASSACHUSETTS RESTAURANT

34 SOUTH STREET SOMERVILLE, MA 02143 (617) 868-1930 800-338-6737 FAX: (617) 686-5331

#### PINE TREE FOOD EQUIPMENT

175 LEWISTON ROAD GRAY, ME 04039 (207) 657-6400 (800) 540-5427 (207) 657-5464 FAX

### MARYLAND

### EMR SERVICE DIVISION

700 EAST 25TH STREET BALTIMORE, MD 21218 (410) 467-8080 800-879-4994 FAX: (410) 467-4191 baltparts@emrco.com

**EMR SERVICE DIVISION** 

106 WILLIAMSPORT CIRCLE SALISBURY, MD 21804 (410) 543-8197 888-687-8080 FAX: (410) 548-4038 baltparts@emrco.com

**EMR SERVICE DIVISION** 

5316 Sunnyside Ave. Beltsville, MD 20715 (301) 931-7000 800-348-2365 FAX: (301) 931-3060 baltparts@emrco.com

GCS SERVICE INC.

SILVER SPRING, MD (301) 585-7550 (DC) (410) 792-0338 (BALT) (800) 638-7278 FAX: (301) 495-4410

MASSACHUSETTS

ACE SERVICE CO.

95 HAMPTON AVE.
NEEDHAM, MA 02494
(781) 449-4220
800-225-4510 MA & NH
FAX: (781) 444-4789
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GCS SERVICE INC.

CHELSEA, MA (617) 889-9393 800-225-1155 FAX: (617) 889-1222

GCS SERVICE INC.

HARTFORD, CT (860) 549-5575 800-723-1562 FAX: (860) 527-6355

SUPERIOR KITCHEN SERVICE INC.

399 FERRY STREET EVERETT, MA 02149 (617) 389-1899 (888) 590-1899 (617) 389-1996 FAX MICHIGAN

GCS SERVICE INC. LIVONIA, MI

(248) 426-9500 800-772-2936 FAX: (248) 426-7555

JACKSON SERVICE COMPANY

3980 BENSTEIN RD. COMMERCE TWSHP, MI 48382 (248) 363-4159 800-332-4053 FAX: (248) 363-5448

GCS SERVICE INC.

GRAND RAPIDS, MI (616) 241-0200 800-823-4866 FAX: (616) 241-0541

**MINNESOTA** 

GCS SERVICE INC.

MINNEAPOLIS, MN (612) 546-4221 800-345-4221 FAX: (612) 546-4286

GENERAL PARTS, INC.

11311 HAMPSHIRE AVENUE SOUTH BLOOMINGTON, MN 55438-2456 (952) 944-5800 (800) 279-9980 (800) 279-9980 FAX

MISSISSIPPI

GCS SERVICE INC.

JACKSON, MS (601) 956-7800 800-274-5954 FAX: (601) 956-1200

GCS SERVICE INC. MEMPHIS, TN

(901) 366-4587 800-262-9155 FAX: (901) 366-4588

MISSOURI

GCS SERVICE INC.

KANSAS CITY, MO (816) 920-5999 800-229-6477 FAX: (816) 920-7387 GCS SERVICE INC.

ST. LOUIS, MO (314) 638-7444 800-284-4427 FAX: (314) 638-0135

KAEMMERLIN PARTS & SVC.

2728 LOCUST STREET ST. LOUIS, MO 63103 (314) 535-2222 FAX: (314) 535-6205 petek@kps.stl.com

**GENERAL PARTS, INC.** 

1101 EAST 13TH STREET KANSAS CITY, MO 64106 (816) 421-5400 (800) 279-9967 (816) 421-1270 FAX

**MONTANA** 

RESTAURANT APPLIANCE SVC.

7219 ROOSEVELT WAY NE SEATTLE, WA 98115 (206) 524-8200 800-433-9390 FAX: (206) 525-2890 info@restappl.com

**NEBRASKA** 

GOODWIN - TUCKER GROUP

7535 D STREET
OMAHA, NE 68124
(402) 397-2880
800-228-0342
FAX: (402) 397-2881
askme@goodwintucker.com

<u>NEVADA</u>

HI TECH COMMERCIAL SERVICE

1840 STELLA LAKE STREET NORTH LAS VEGAS, NV 89106 (702) 649-4616 (877) 924-4832 FAX: (702) 649-4607

HI TECH COMMERCIAL SERVICE

5454 LOUIE LANE RENO, NV 89511 (775) 852-9696 FAX: (775) 852-5104

larry@hitechnv.com

GCS SERVICE INC. LAS VEGAS, NV

(702) 450-3495 800-500-9060 FAX: (702) 450-3491 **NEW HAMPSHIRE** 

GCS SERVICE INC.

CHELSEA, MA (617)889-9393 800-225-1155 FAX: (617) 889-1222

ACE SERVICE CO.

95 HAMPTON AVE. NEEDHAM, MA 02494 (781) 449-4220 800-225-4510 MA & NH FAX: (781) 444-4789 taceservice@aol.com

MASSACHUSETTS RESTAURANT

SUPPLY

34 SOUTH STREET SOMERVILLE, MA 02143 (617) 868-1930 800-338-6737 FAX: (617) 868-5331

**NEW JERSEY** 

JAY HILL REPAIRS

90 CLINTON RD.
FAIRFIELD, NJ 07004
(973) 575-9145
800-836-0643
FAX: (973) 575-5890
jhrepair@aol.com

GCS SERVICE INC.

EAST RUTHERFORD, NJ (973) 614-0003 800-399-8294 FAX: (973) 614-0230

GCS SERVICE INC.

PHILADELPHIA, PA (215) 925-6217 800-441-9115 FAX: (215) 925-6208

**ELMER SCHULTZ SERVICES** 

201 W. WASHINGTON AVE.
PLEASANTVILLE, NJ 08232
(609) 641-0317
800-378-1641
FAX:(609) 641-8703
elmer2@erols.com

NEW YORK

APPLIANCE INSTALLATION AND SERVICE CORP.

1336 MAIN STREET BUFFALO, NY 14209 (716) 884-7425 800-722-1252 FAX: (716) 884-0410 ais@worldnet.att.net

#### B.E.S.T. INC.

3003 GENESEE STREET **BUFFALO. NY 14225** (716) 893-6464 800-338-5011 FAX: (716) 893-6466 bestserv@aol.com

#### **DUFFY'S EQUIPMENT SVC.**

3138 ONEIDA STREET SAUQUOIT, NY 13456 (315) 737-9401 800-443-8339 FAX: (315) 737-7132 duffyequip@aol.com

#### **NORTHERN PARTS & SVC.**

21 NORTHERN AVENUE PLATTSBURGH, NY 12903 (518) 563-3200 800-634-5005 FAX: (800) 782-5424 info@northernparts.com

#### GCS SERVICE INC.

BROOKLYN, NY (718) 486-5220 800-969-4271 FAX: (718) 486-6772

#### ALL SERVICE KITCHEN EQUIPMENT REPAIR

10 CHARLES ST.

NEW HYDE PARK, NY 11040 (516) 378-1176 FAX: (516) 378-1735

ALL ISLAND REPAIRS 40-9 BURT DRIVE

DEER PARK, NY 11729 (631) 242-5588 FAX: (631) 242-6102

### **NORTH CAROLINA**

#### AUTHORIZED APPLIANCE SERVICECENTER

1020 TUCKASEEGEE RD. CHARLOTTE, NC 28208 (704) 377-4501 (800) 532-6127 FAX:(704) 377-4504

#### **AUTHORIZED APPLIANCE** SERVICECENTER

800 N. PERSON ST. RALEIGH, NC 27604 (919) 834-3476 FAX:(919) 834-3477

#### **AUTHORIZED APPLIANCE**

#### SERVICECENTER

904 S MARSHALL ST WINSTON-SALEM, NC 27403 (336) 725-5396 FAX:(336) 721-1289

#### **AUTHORIZED APPLIANCE**

SERVICECENTER 104 HINTON AVE. WILMINGTON, NC 28403 (910) 313-1250 FAX:(910) 313-6130

#### WHALFY FOODSERVICE

8334-K ARROWRIDGE BLVD CHARLOTTE, NC 28273 (704) 529-6242 FAX: (704) 529-1558 info@whaleyfoodservice.com

#### WHALEY FOODSERVICE REPAIRS

203-D CREEK RIDGE RD. GREENSBORO, NC 27406 (336) 333-2333 FAX: (336) 333-2533 info@whaleyfoodservice.com

WHALEY FOODSERVICE REPAIRS 335-105 SHERWEE DRIVE RALEIGH, NC 27603 (919) 779-2266 FAX: (919) 779-2224

info@whaleyfoodservice.com

## WHALEY FOODSERVICE REPAIRS

6418-101 AMSTERDAM WAY WILMINGTON, NC 28405 (910) 791-0000 FAX: (910) 791-6662

info@whaleyfoodservice.com

#### NORTH DAKOTA

#### GCS SERVICE INC. MINNEAPOLIS, MN (612) 546-4221

800-345-4221 FAX: (612) 546-4286

GENERAL PARTS. INC. 10 SOUTH 18TH STREET FARGO, ND 58103 (701) 235-4161 (800) 279-9987 (701) 235-0539 FAX

#### оню

#### CERTIFIED SERVICE CENTER

890 REDNA TERRACE CINCINNATI. OH 45215 (513) 772-6600 800-543-2060 FAX: (513) 612-6600 sbarasch@certifiedsc.com

#### CERTIFIED SERVICE CENTER

171J-K NORTH HAMILTON RD. COLUMBUS, OH 43213 (614) 751-3769 (866) 862-1252 FAX: (614) 751-5792 jadkins@certifiedsc.com

#### **CERTIFIED SERVICE CENTER**

6025 N. DIXIE DRIVE DAYTON, OH 45414 (937) 898-4040 (800) 257-2611 FAX: (937) 898-4177 dharvey@certifiedsc.com

### COMMERCIAL PARTS & SVC.

OF COLUMBUS 5033 TRANSAMERICA DRIVE COLUMBUS, OH 43228 (614) 221-0057 800-837-8327 FAX: (614) 221-3622

# GCS SERVICE INC.

COLUMBUS, OH (614) 476-3225 800-282-5406 FAX: (614) 476-1196

# ELECTRICAL APPLIANCE

REPAIR SVC. 5805 VALLEY BELT ROAD

CLEVELAND, OH 44131 (216) 459-8700 800-621-8259 FAX: (216) 459-8707 tomr@electapplrep.com

#### **OKLAHOMA**

### HAGAR RESTAURANT EQMT.

1229 W MAIN STREET OKLAHOMA CITY, OK 73106 (405) 235-2184 800-445-1791 FAX: (405) 236-5592

#### OREGON

#### RON'S SERVICE

16364 SW 72ND AVE PORTLAND, OR 97224 (503) 624-0890 800-851-4118 FAX: (503) 684-6107 Irobinson@ronsservice.com

#### **PENNSYLVANIA**

### A.I.S. COMMERCIAL PARTS &

SERVICE

1816 WEST 26TH STREET ERIE, PA 16508 (814) 456-3732 800-332-3732 FAX: (814) 452-4843 aiserie@aol.com

#### ELMER SCHULTZ SVC.

540 NORTH 3RD STREET PHILADELPHIA, PA 19123 (215) 627-5400 FAX: (215) 627-5408 elmer2@erols.com

#### GCS SERVICE INC.

PHILADELPHIA PA (215) 925-6217 800-441-9115 FAX: (215) 925-6208

### GCS SERVICE INC.

HARRISBURG PA (717) 564-3282 800-367-3225 FAX: (717) 564-9286

### GCS SERVICE INC.

PITTSBURGH, PA (412) 787-1970 800-738-1221 FAX: (412) 787-5005

#### K & D PARTS AND SERVICE CO. 1833-41 N CAMERON STREET

HARRISBURG, PA 17103 (717) 236-9039 800-932-0503 FAX: (717) 238-4367 kdparts-service@paonline.com

### CLARK SERVICE & PARTS

306 AIRPORT DRIVE **BOX 10** 

SMOKETOWN, PA 17576 (717) 392-5590 (717) 392-5735

#### RHODE ISLAND

#### GCS SERVICE INC.

EAST PROVIDENCE, RI (401) 434-6803 800-462-6012 FAX: (401) 438-9400

#### SUPERIOR KITCHEN SERVICE INC.

669 ELMWOOD AVENUE PROVIDENCE, RI 02907 (888) 590-1899 (401) 781-1996 FAX

#### **SOUTH CAROLINA**

#### **AUTHORIZED APPLIANCE**

SERVICECENTER 1811 TAYLOR ST. COLUMBIA, SC 29202 (803) 254-8414 FAX: (803) 254-5146

#### **AUTHORIZED APPLIANCE**

SERVICECENTER 2249 AUGUSTA RD. GREENVILLE, SC 29605 (864) 235-9616 FAX: (864) 235-9623

L26&US1

#### WHALEY FOODSERVICE REPAIRS

P.O. BOX 4023 WEST COLUMBIA, SC 29170 (803) 791-4420 800-877-2662 FAX: (803) 794-4630 info@whaleyfoodservice.com

#### WHALEY FOODSERVICE REPAIRS

748 CONGAREE ROAD GREENVILLE, SC 29607 (864) 234-7011 800-494-2539 FAX: (864) 234-6662 info@whaleyfoodservice.com

### WHALEY FOODSERVICE REPAIRS

1406-C COMMERCE PL. MYRTLE BEACH, SC 29577 (843) 626-1866 FAX: (843) 626-2632 info@whaleyfoodservice.com

#### WHALEY FOODSERVICE REPAIRS

4740-A FRANCHISE STREET
N. CHARLESTON, SC 29418
(843) 760-2110
FAX: (843) 760-2255
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#### **SOUTH DAKOTA**

#### GCS SERVICE INC. MINNEAPOLIS, MN (612) 546-4221 800-345-4221 FAX: (612) 546-4286

### GENERAL PARTS, INC. 10 SOUTH 18TH STREET

FARGO, ND 58103 (701) 235-4161 (800) 279-9987 (701) 235-0539 FAX

#### **TENNESSEE**

#### GCS SERVICE INC.

MEMPHIS, TN (901) 366-4587 800-262-9155 FAX: (901) 366-4588

#### GCS SERVICE INC.

NASHVILLE, TN (615) 244-8050 800-831-7174 FAX: (615) 244-8885

#### **TEXAS**

#### ARMSTRONG REPAIR CENTER

5110 GLENMOUNT DRIVE HOUSTON, TX 77081 (713) 666-7100 800-392-5325 FAX: (713) 661-0520 gm@armstrongrepair.com

### COMMERCIAL KITCHEN REPAIR CO.

1377 N BRAZOS P.O BOX 831128 SAN ANTONIO, TX 78207 (210) 735-2811 800-292-2120 FAX: (210) 735-7421 brock@commercialkitchen.com

#### GCS SERVICE INC.

DALLAS, TX (972) 484-2954 800-442-5026 FAX: (972) 484-2531

#### GCS SERVICE INC.

HOUSTON, TX (713)785-9187 800-868-6957 FAX: (713) 785-3979

#### GCS/STOVE PARTS

2120 SOLANA STREET FORT WORTH, TX 76117 (817) 831-0381 800-433-1804 FAX: (817) 834-7754 bud@stoveparts.com

#### **UTAH**

# LA MONICA'S RESTAURANT EQUIPMENT SVC.

6182 SOUTH STRATLER AVE. MURRAY, UT 84107 (801) 263-3221 800-527-2561 FAX: (801) 263-3229 lamonica81@aol.com

#### VERMONT

#### NORTHERN PARTS & SVC.

4874 S. CATHERINE STREET PLATTSBURGH, NY 12901 (518) 563-3200 800-634-5005 FAX: (800) 782-5424 info@northernparts.com

### GCS SERVICE INC.

CHELSEA, MA (617)889-9393 800-225-1155 FAX: (617) 889-1222

#### VIRGINIA

#### DAUBERS, INC.

7645 DYNATECH COURT SPINGFIELD, VA 22153 (703) 866-3600 800-554-7788 FAX: (703) 866-4071 daubers@aol.com

#### GCS SERVICE INC.

SILVER SPRING, MD (301) 585-7550(DC) (410) 792-0388(BALT) 800-638-7278 FAX: (301)495-4410

### GCS SERVICE INC.

RICHMOND, VA (804) 672-1700 800-899-5949 FAX: (804) 672-2888

#### GCS SERVICE INC.

VIRGINIA BEACH, VA (757) 464-3500 800-476-4278 FAX: (757) 464-4106

#### WASHINGTON

#### GCS SERVICE INC.

SEATTLE, WA (206) 763-0353 800-211-4274 FAX: (206) 763-5943

# RESTAURANT APPLIANCE SERVICE

7219 ROOSEVELT WAY, NE SEATTLE, WA 98115 (206) 524-8200 800-433-9390 FAX: (206) 525-2890 info@restappl.com

#### WEST VIRGINIA

#### STATEWIDE SERVICE, INC.

603 MAIN AVE. NITRO, WV 25143 (304) 755-1811 (800) 441-9739 FAX: (304) 755-4001 sws3182@aol.com

#### WISCONSIN

# APPLIANCE SERVICE CENTER. INC.

2439 ATWOOD AVE MADISON, WI 53704 (608) 246-3160 800-236-7440 FAX: (608) 246-2721 ascmad@execpc.com

## APPLIANCE SERVICE

CENTER, INC.
6843 W. BELOIT RD.
WEST ALLIS, WI 53219
(414) 543-6460
800-236-6460
FAX: (414) 543-6480
ascmil@execpc.com

## APPLIANCE SERVICE

### CENTER

786 MORRIS AVE GREEN BAY, WI 54304 (920) 496-9993 800-236-0871 FAX: (920) 496-9927 ascfox@execpc.com

#### GENERAL PARTS, INC.

W223 N735 SARATOGA DRIVE

WAUKESHA, WI 53186

(262) 650-6666

(800) 279-9946

(262) 650-6660 FAX

### WYOMING

#### **HAWKINS COMMERCIAL**

#### APPLIANCE SERVICE

3000 S. WYANDOT ST.

ENGLEWOOD, CO 80110

(303) 781-5548

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#### METRO APPLIANCE SERVICE

1640 S BROADWAY

**DENVER, CO 80210** 

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#### GLOBAL PARTS AND SUPPLY

7758 NW 72ND ST

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#### H.D. SHELDON AND CO

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SALES

(905) 624-1419

FAX: (905) 624-1851

SERVICE

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